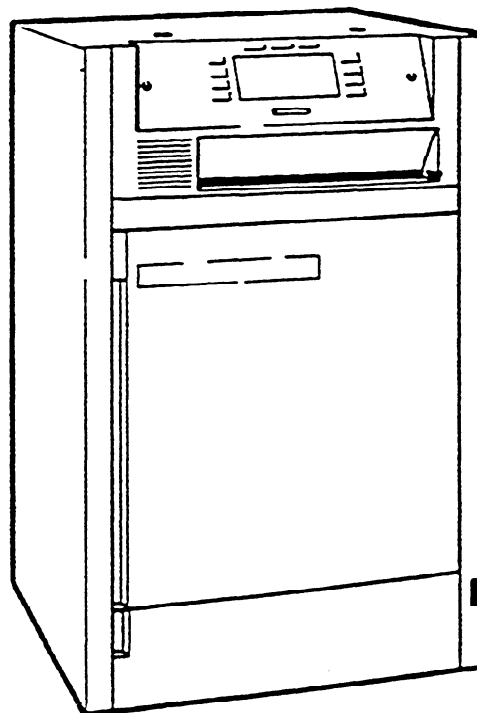


INSTALLATION INSTRUCTIONS

FOR THE

Kodak

Multiloader 700



PLEASE NOTE

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PLEASE NOTE

DO NOT START THE INSTALLATION IF THE SITE DOES NOT MEET THE SITE SPECIFICATIONS.

FOR THE PROCESSOR VENTING SEE APPENDIX A PAGE 80.

DO NOT START THE INSTALLATION IF THE RECOMMENDED PARTS AND TOOLS ARE NOT AVAILABLE.

IT IS THE RESPONSIBILITY OF THE SALES REPRESENTATIVE TO PROVIDE AT LEAST 100 TEST FILMS OF EACH SIZE, USED BY THE HOSPITAL

IT IS ALSO THE RESPONSIBILITY OF THE SALES REPRESENTATIVE TO PROVIDE THE PROPER LANGUAGE EPROM.

The ML 700 / 50 Hz is shipped from the factory with a STANDARD LANGUAGE EPROM for:

English German French ITALIAN

The ML 700 / 60 Hz is shipped from the factory with a STANDARD LANGUAGE EPROM for:

English French Spanish German

Extension "A", Cat. No. 709 4832, includes LANGUAGE EPROM for:

Swedish Norwegian Finnish Danish

Extension "B", Cat. No. 709 4840, includes LANGUAGE EPROM for:

Dutch Spanish English

See page 37 for Installing Language EPROM:

- To align the ML 700 with the processor, install the processor with leveling feet.
- Check that the PROCESSOR is leveled and operating correctly.

1. PACKING LIST

1.1 INTERFACE CARTON FOR ML 700 WITH KODAK X-OMAT M6/M8

1 x FILM TUNNEL M6/M8	PN 9187964
1 x CONVEYOR M6/M8	PN 9188315
1 x INFILL PANEL RH	PN 918 9903
1 x INFILL PANEL LH	PN 918 9943
1 x ADAPTER PLATE M6	PN 918 8594
2 x CENTERING BOLT for M8	PN 918 8616
1 x CABLE	PN 9156133

1.2 INTERFACE CARTON FOR ML 700 WITH KODAK X-OMAT ME-3

1 x FILMTUNNEL ME-3
1 x CONVEYOR ME-3
1 x INFILL PANEL RH M6/M8/ME-3, Part No. 918 9903
1 x INFILL PANEL LH ME-3, Part No. 918 9954
1 x INTERFACE CABLE ME-3, Part No. 9155213
1 x INTERFACE KIT (Ready signal) ME-3, Part No.
2 x CENTERING BOLT ME-3, Part No. 918 6101
1 x FEED TRAY, Part No. 918 8843
2 x PLATE, Part No. 918 8843
1 x TEMPLATE, Part No. 919 3011, for CENTERING BOLT holes

1.3 INSTALLATION KIT ML 700 / 50Hz

6 x WASHER	PN 4497710
3 x FUSE 1.0A	PN 4515681
2 x FUSE 0.1A	PN 4516521
1 x FUSE 0.4A	PN 4521301
2 x FUSE 0.315A	PN4526031
2 x FUSE 0.05A	PN 4527101
6 x NUT M4	PN 4853121
1 x PRINTER PAPER	PN 9188961
1 x PLATE	PN 9190861
5 x OPENER GUIDE X-OMAT CASSETTE 20x40	PN 9191911
2 x REFLECTIVE STICKERS 8x15 mm	PN 9194551
1 SHEET is quantity of 1	
2 x REFLECTIVE STICKERS 6x19 mm	PN 9194561
1 SHEET is quantity of 1	
1 x WATER SUPPLY ASSY	PN 9198033
1 x FILTER	PN 9198261
1 x DRAIN HOSE	PN 9198383
1 x ALLEN KEY 10mm	PN 9197311

The following parts are needed to connect the HUMIDIFIER to new PROCESSORS:

2 x GASKET	PN 8581094
1 x FITTING	PN 8594431

1.4 INSTALLATION KIT ML 700 / 60Hz

6 x WASHER	PN 4497710
2 x FUSE 0.062A	PN 4527111
2 x FUSE 0.1A	PN 4527121
3 x FUSE 0.375A	PN 4527131
3 x FUSE 1.05A	PN4527511
1 x FUSE 5.0A	PN 4528401
6 x NUT M4	PN 4853121
1 x PRINTER PAPER	PN 9188961
2 x REFLECTIVE STICKERS 8x15 mm	PN 9194551
1 SHEET is quantity of 1	
2 x REFLECTIVE STICKERS 6x19 mm	PN 9194561
1 SHEET is quantity of 1	
1 x WATER SUPPLY ASSY	PN 9198033
1 x FILTER	PN 9198261
1 x DRAIN HOSE	PN 9198383
1 x ALLEN KEY 10mm	PN 9197311

The following parts are needed to connect the HUMIDIFIER to new PROCESSORS:

2 x GASKET	PN 8581094
1 x FITTING	PN 8594431

If REFLECTIVE STICKERS must be installed prior to the installation of the ML 700, they must be ordered from local PARTS SERVICES.

1.5 HUMIDIFIER

The HUMIDIFIER is mounted to the inside of the ML 700 REAR COVER.

2. SPECIAL TOOLS

1 x TEMPLATE, CASSETTE LID C1, C2, C3	PN 9194501
1 x TEMPLATE, TUBESIDE SCREEN C1, C2, C3	PN 9194511
1 x TEMPLATE, WINDOW C1	PN 9194521
1 x TEMPLATE, LID SCREEN C-2	PN 9194531
1 x TEMPLATE, WINDOW C-3	PN 9194541
1 x ALLEN KEY 10 mm	PN 9197313
1 x METRIC OPEN END WRENCH, 30 mm	PN 9901901
1 x SCREW DRIVER, TORX SPECIAL	PN 9901729
1 x VACUUM GAUGE	PN 29010170
1 x PRESSURE GAUGE	PN 918 6781
1 x METRIC ALLEN SET	TL 2764
1 x METRIC OPEN END WRENCH SET	TL 2765
1 x FILTER; for adjusting the DOUBLE FILM SENSOR	PN 9191223
2 x SERVICE KEY, INTERLOCK SWITCHES	PN 9901918
1 x METRIC SOCKET WRENCH SET	PN G9901934
1 x ESD KIT	TL 3346

The following TOOLS are used to check the venting of the PROCESSOR. See APPENDIX A.

1 x AIR METER	TL 2431
1 x REPLENISHER CHECK TUBE	PN 592380

NOTE

All tools should be ordered prior to the installation of the ML 700.

3. UNPACKING

- 1.** Cut METAL BANDS.
- 2.** Remove 10 SCREWS.

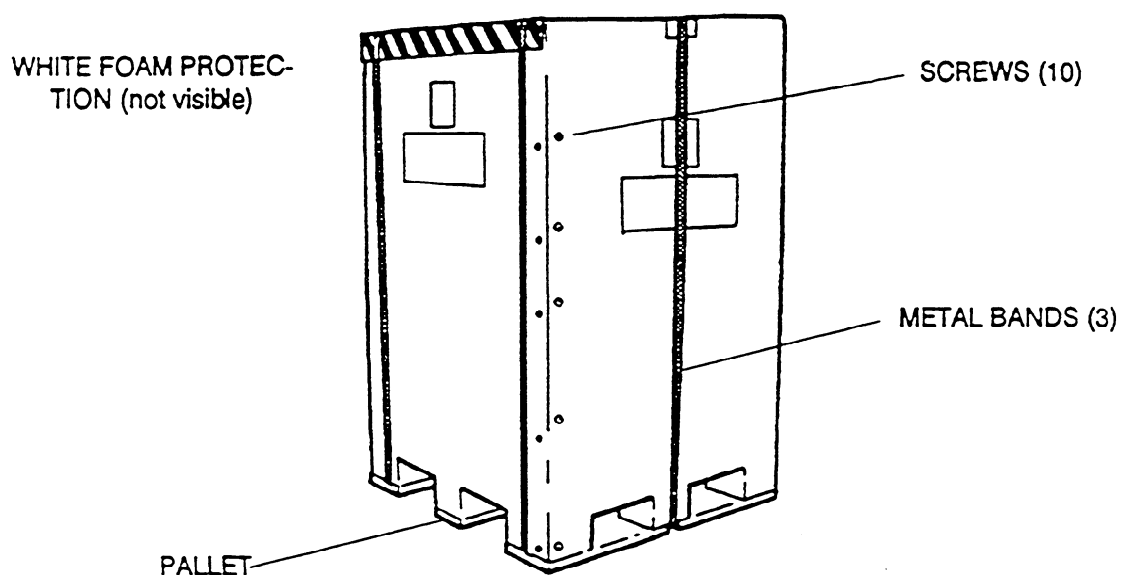


figure 1

- 3.** Lift CARTON from PALLET.
- 4.** Remove the WHITE FOAM PROTECTION.

5. Carefully swing out RAMP to the floor.
6. Roll MULTILOADER 700 slowly down the RAMP.

CAUTION

Injury: Watch your feet while rolling ML 700 down the RAMP.

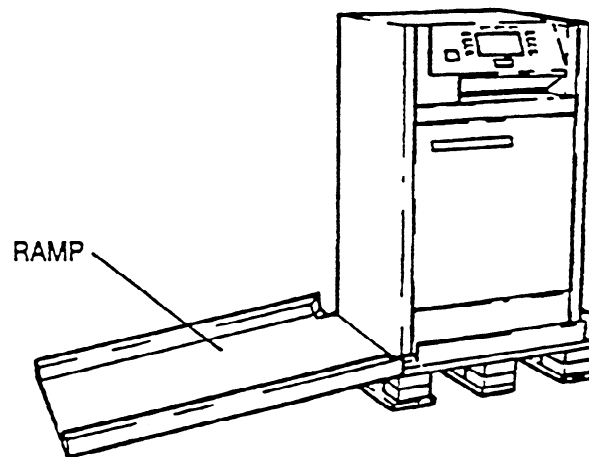


figure 2

7. Remove all parts from the INTERFACE CARTON. Check it against the PACKING LIST 1.1 or 1.2. Remove all parts from the INSTALLATION KIT. Check it against the PACKING LIST 1.3 or 1.4.
8. Remove the REAR COVER from the MULTILOADER 700 (see fig. 4)
9. Remove the SHIPPING PROTECTIONS. (see fig.3)

CAUTION

Take care of the FILMPOCKET. Do not bend the MOUNTING BRACKETS of the DOUBLE FILM SENSOR

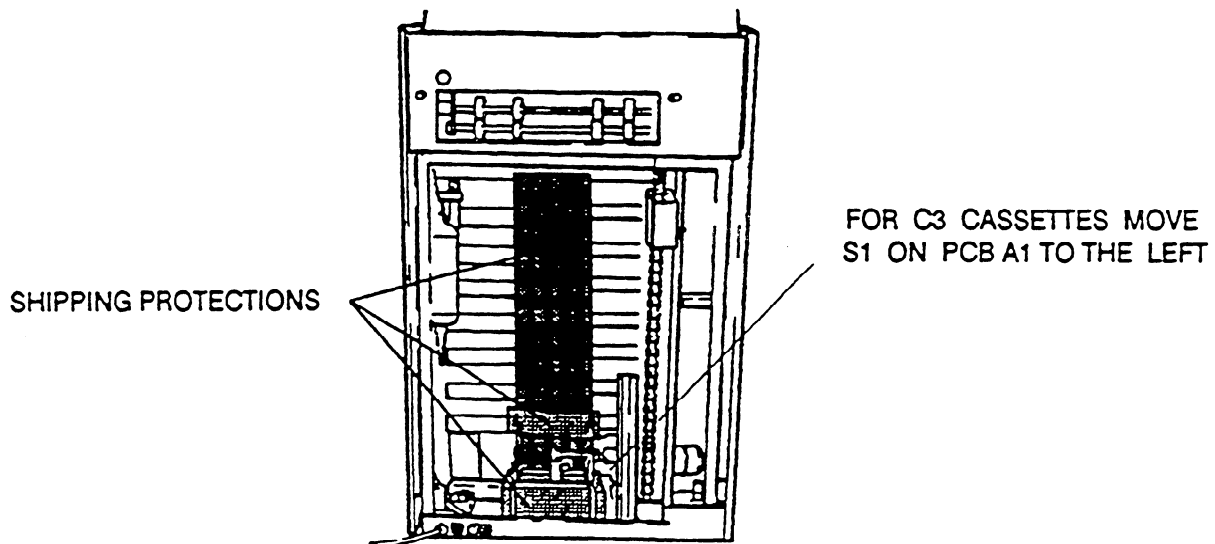


figure 3

10. If the ML700 is used with C3 CASSETTES, move SWITCH S1 on PCB A1 to the left.

11. Remove the ALLEN SCREW that holds the COUNTERWEIGHT to the GUIDE RAIL.(see fig. 4) Slide the COUNTERWEIGHT to that portion, where the screwhole in the COUNTERWEIGHT is visible through the LOWER part of the GUIDE RAIL (see fig. 4). Through the hole in the GUIDE RAIL install the ALLEN SCREW in the COUNTERWEIGHT.(see fig. 5)

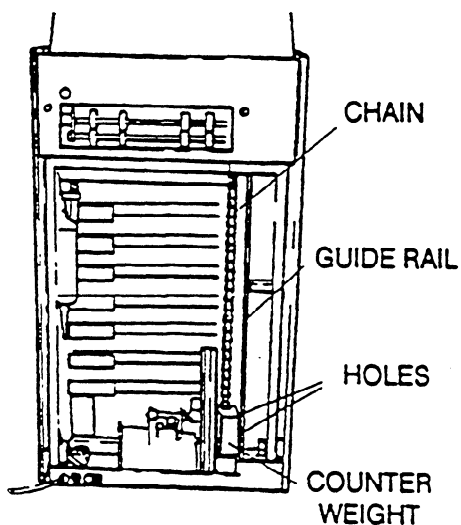


figure 4

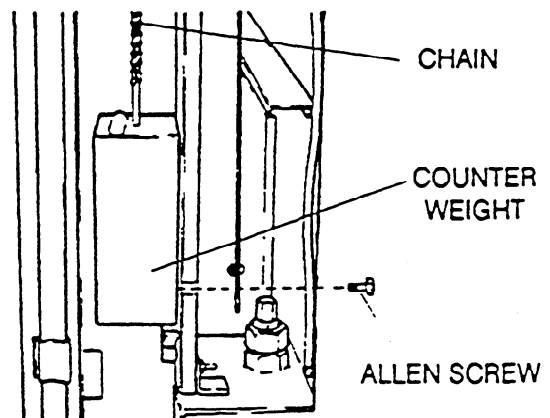


figure 5

12. Open the TOP COVER of the ML 700.
13. Pull on STRING to open FRONT DOOR.

WARNING

Pull STRING straight up gently.

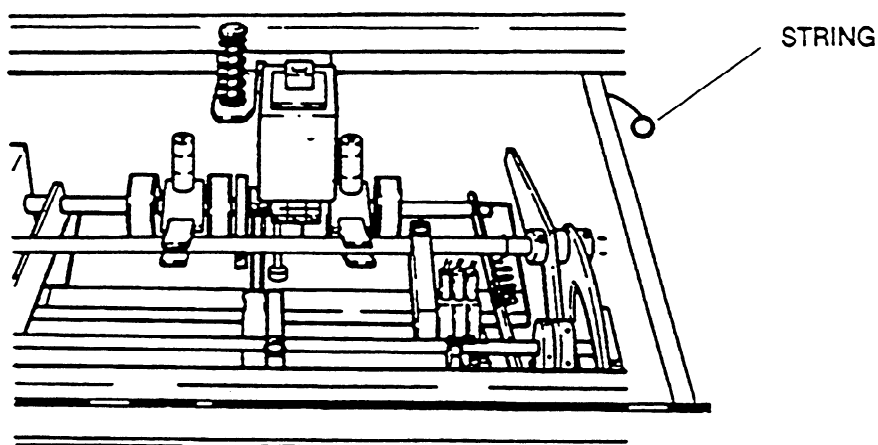


figure 6

14. Remove the protections from inside of FRONT DOOR.
15. Pull out DRAWER at feed end of ML 700 (see fig. 7).
16. Remove the PROTECTIONS. Make sure that all PLUGS are seated.
17. If the ML 700 is used with C3 CASSETTES do the PROCEDURE APPENDIX B.

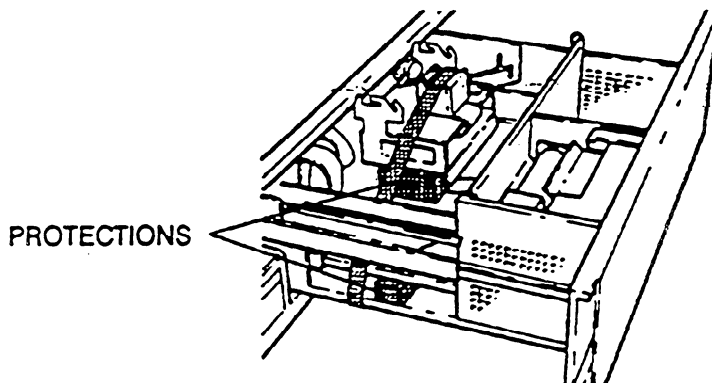


figure 7

4. INSTALLING THE HUMIDIFIER TO ML 700

NOTE

FITTINGS ARE MADE FROM STEEL. CHECK IF THIS APPLYS TO YOUR LOCAL REGULATIONS.

- 1.** Remove the HUMIDIFIER from the ML 700 REAR COVER. Keep the SCREWS. The HUMIDIFIER is mounted to the inside of the REAR COVER.
- 2.** Mount HUMIDIFIER PLATE from the inside of the REAR COVER. Use all 6 SCREWS.
- 3.** Connect the HUMIDIFIER CABLE to the RECEPTACLE of the ML 700.
- 4.** Mount the SHUT OFF-VALVE to the WATERINLET of the PROCESSOR. The SHUT OFF-VALVE can be used on PROCESSORS Models M8, M6AW, M6B and ME-3.
- 5.** Connect the WATERSUPPLY HOSE to the SHUT OFF-VALVE and the FITTING on the HUMIDIFIER.
- 6.** Connect one end of the OVERFLOW HOSE to the FITTING on the HUMIDIFIER, connect the other end to the drain. **MAKE SURE THAT WATER FROM A NEARBY SINK CANNOT GO REVERSE INTO THE HUMIDIFIER. THIS WOULD FLOOD THE ML 700.**
- 7.** Turn the SHUT OFF-VALVE to the open-position.

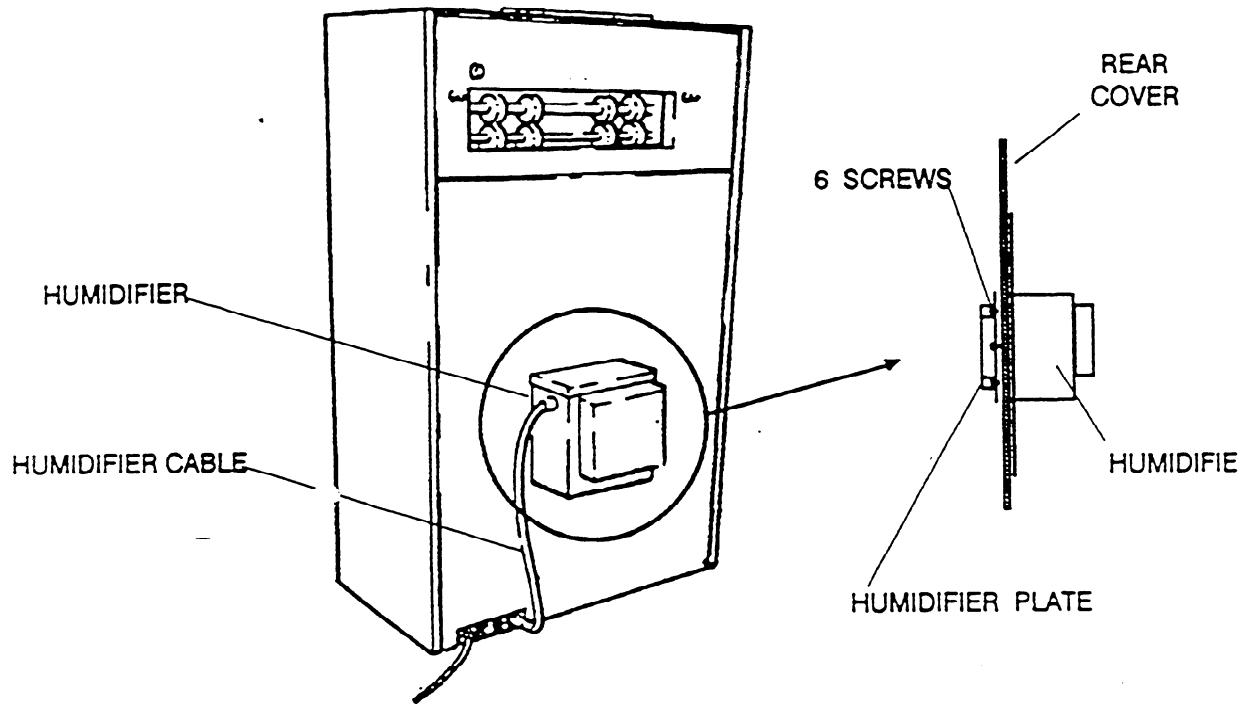


figure 8

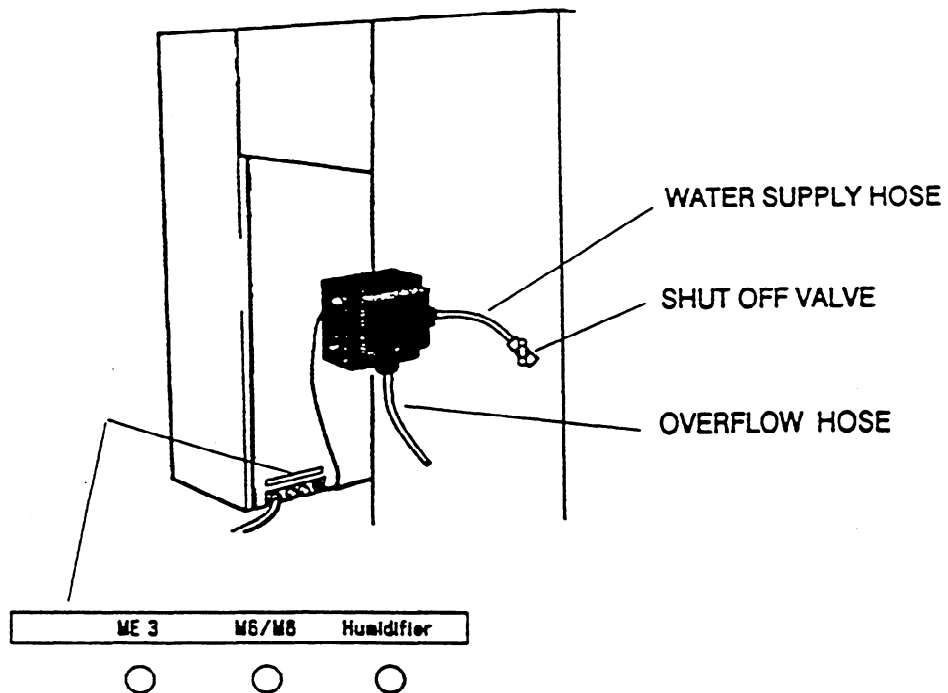


figure 9

5. CONNECTING THE ML 700 WITH THE PROCESSORS

5.1 MOUNTING THE M6/M8 TUNNEL TO THE ML 700

1. Remove the TUNNEL from INTERFACE CARTON.

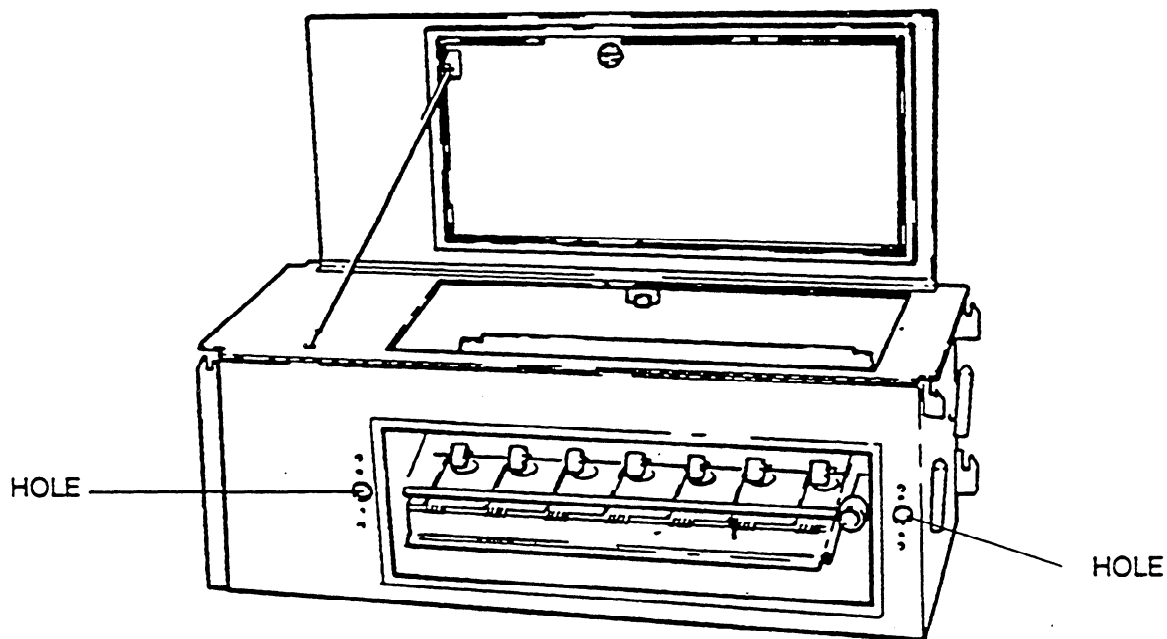


figure 10

2. Align holes of TUNNEL with LOCATING PINS in the ML 700 . Push TUNNEL in all the way. Make sure HOOK is engaged on TUNNEL

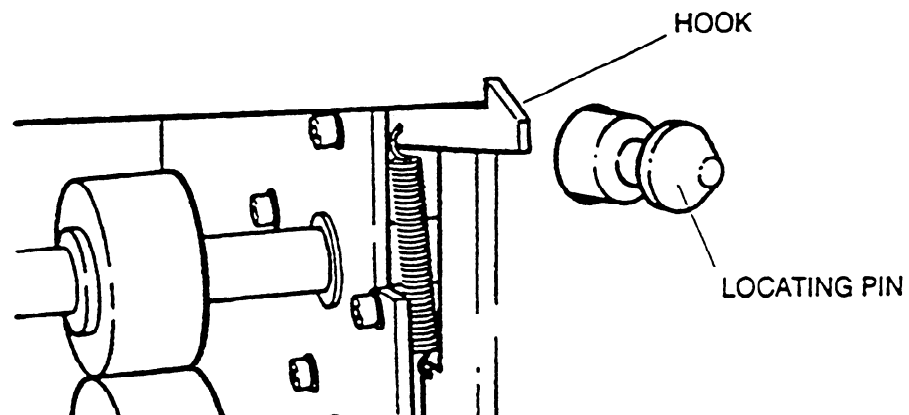


figure 11

3. Move LOCKING LEVER clockwise 1/2 turn.

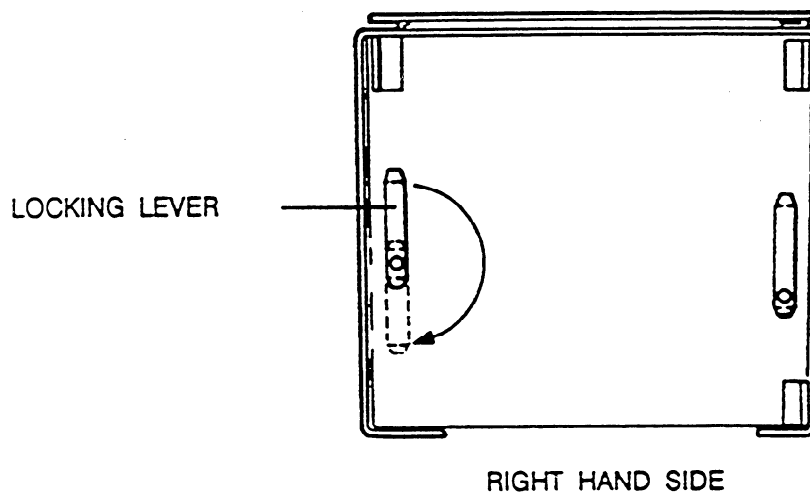


figure 12

4. If the ML 700 has to be installed with its right hand side to the wall, mount the 2 LOCKING LEVERS to the left hand side of the TUNNEL.

5.2 CONNECTING THE ML 700 TO THE PROCESSOR X-OMAT M8

1. Remove SCREWS from below the ENTRANCE SLOT and the upper corners of the PANEL.
2. Mount the 2 CENTERING BOLTS.

NOTE

Packed in the INTERFACE CARTONS are CENTERING BOLTS PN 9188616, INTERFACE CABLE PN 9156133

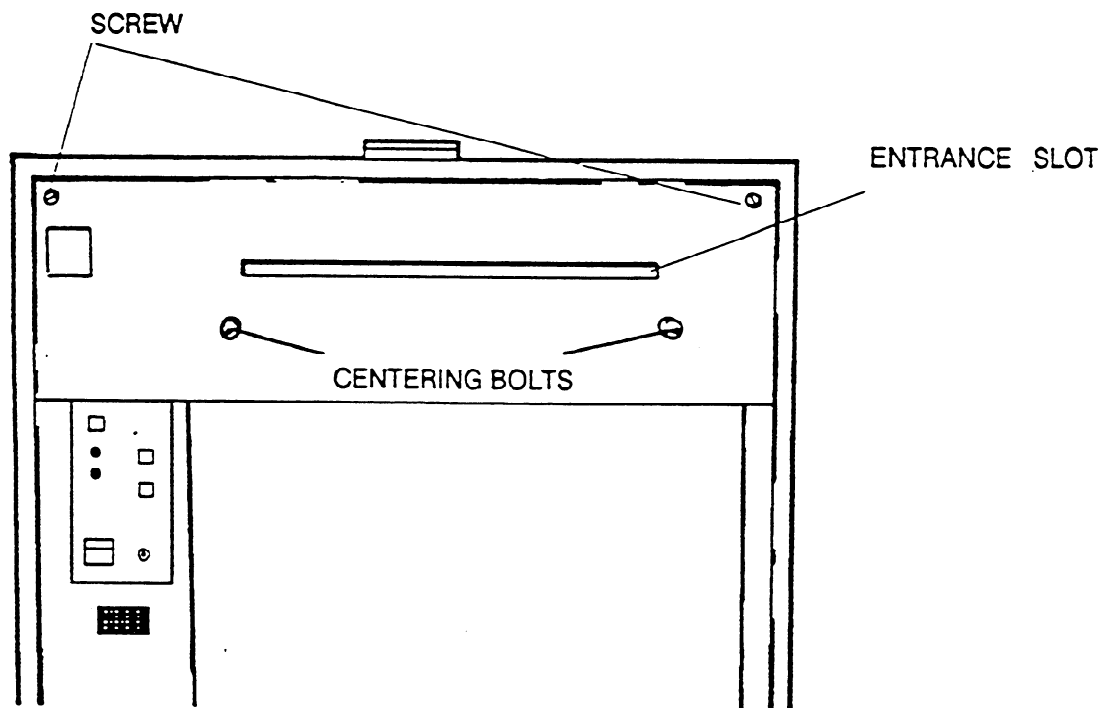


figure 13

3. Move ML 700 close to the PROCESSOR. Adjust CASTERS (level the ML 700) on ML 700 to align holes in TUNNEL with the CENTERING BOLTS in the PROCESSOR. Use WRENCH 30 mm for LOCKNUTS (see fig. 14).
4. Push ML 700 towards PROCESSOR all the way.

5. Secure the ML 700 with the LEVELLING FEET.

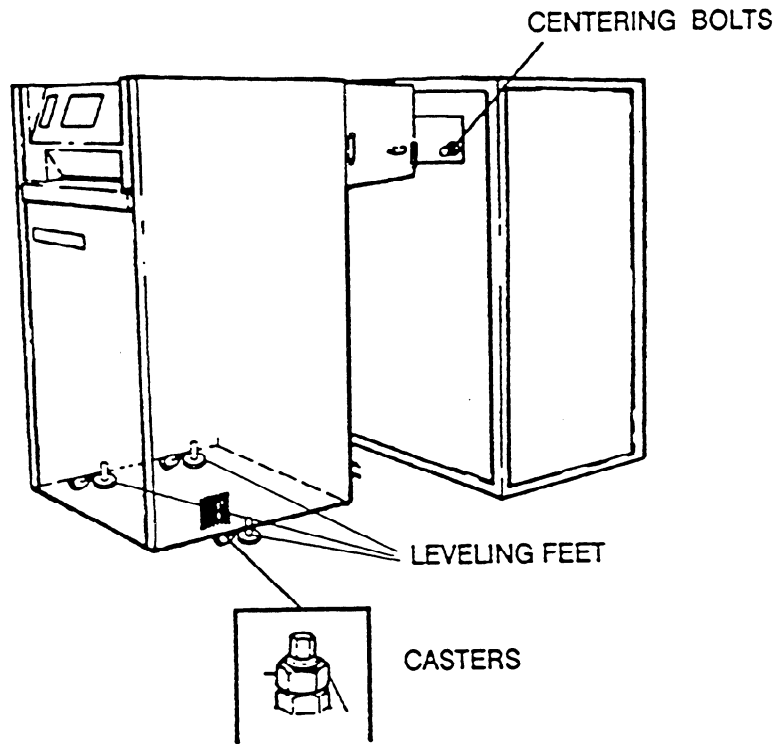


figure 14

6. Move LOCKING LEVER counterclockwise.

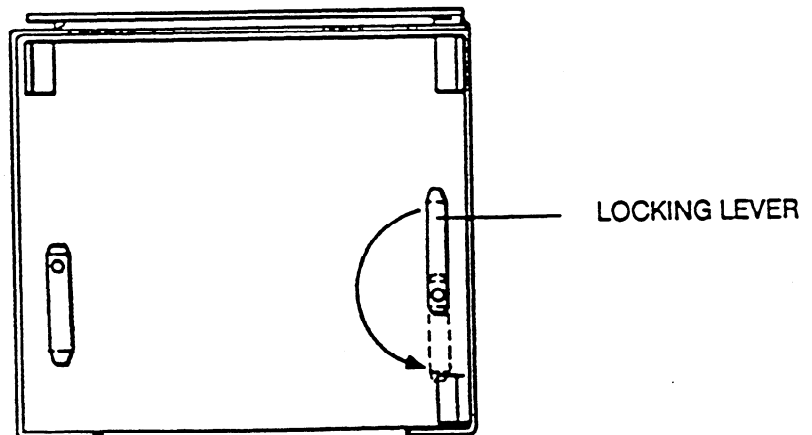


figure 15

7. Connect INTERFACE CABLE, with PHONE PLUG to M8 and with AMP-PLUG to ML 700.

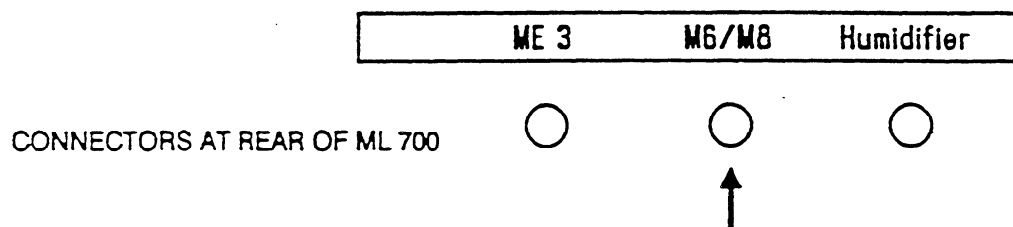


figure 16

8. Open TUNNEL COVER and RH COVER of ML 700.
9. Slide CONVEYOR DRIVE-BELT onto DRIVE-PULLEY in ML 700.

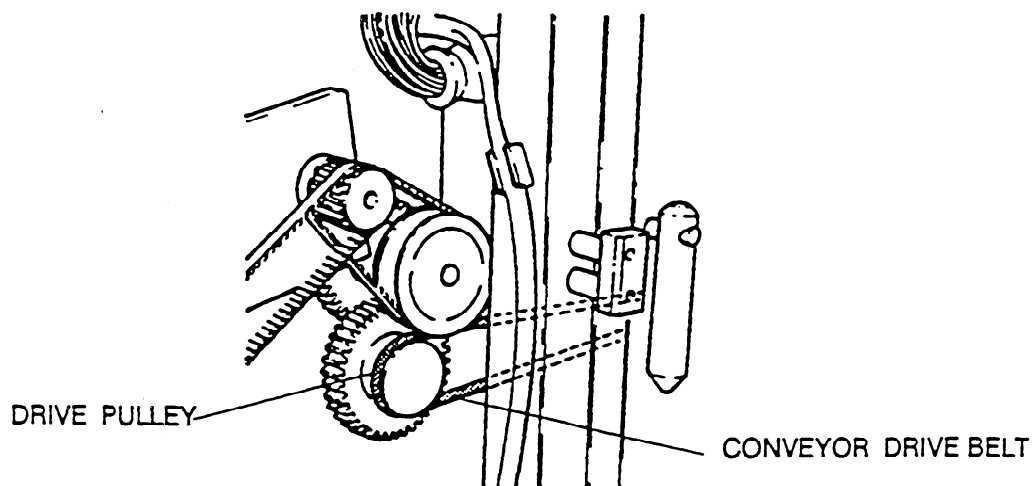


figure 17

10. Connect BROWN CONVEYOR PLUG to BROWN TUNNEL-PLUG and the AMP-CONVEYOR PLUG to the ML 700 RECEPTACLE.

11. Connect JUMPER M8 on PCB 9 of ML 700. This connection will adapt the TUNNEL-FILM SCANNING CIRCUIT to the transport speed of the PROCESSOR.

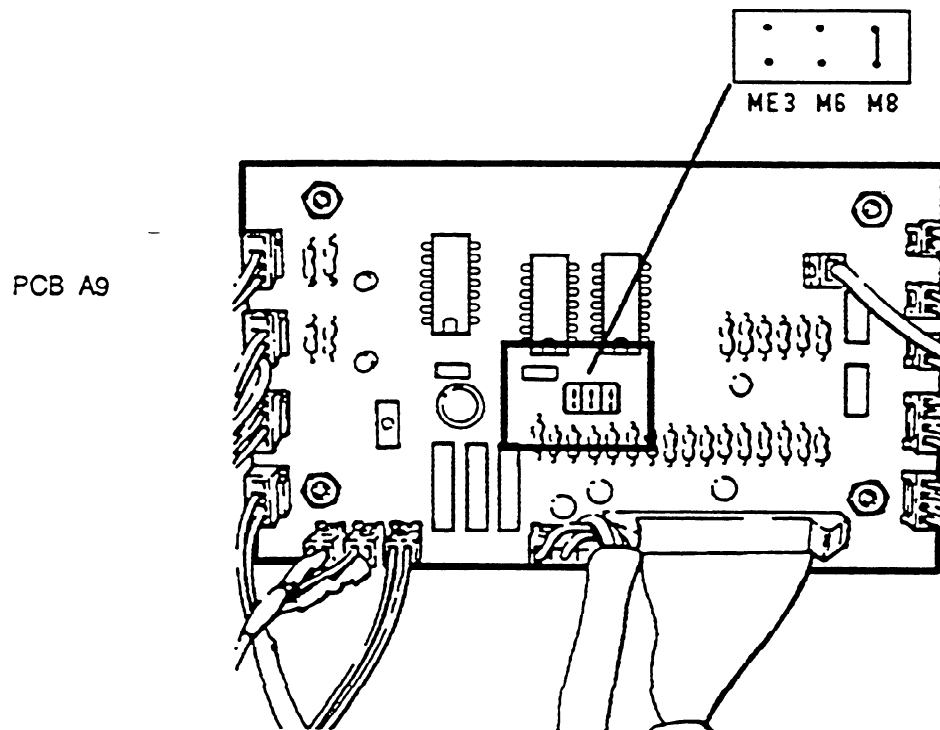


figure 18

NOTE

It might be necessary to adjust the CONVEYOR in the TUNNEL, up or down. To raise/lower CONVEYOR, lift CONVEYOR up and loosen NYLOCNUT, turn ADJUSTMENT SCREWS clock-/counterclockwise until leading edge FILM and ENTRANCE ROLLER in M8 are the same level (see fig 19). Tighten NYLOCNUTS.

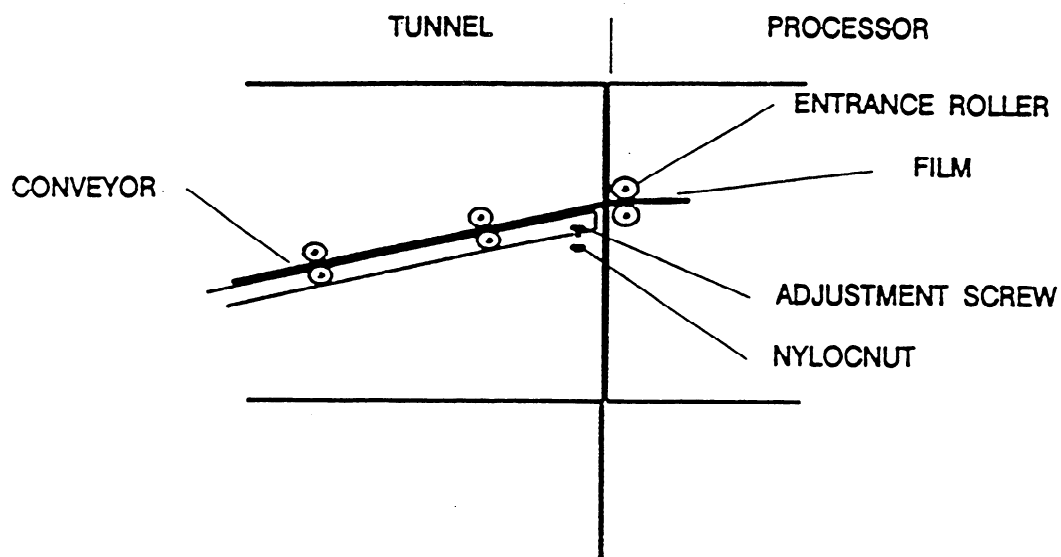


figure 19

12. Close all COVERS on ML 700 and PROCESSOR. Install INFILL PANELS.

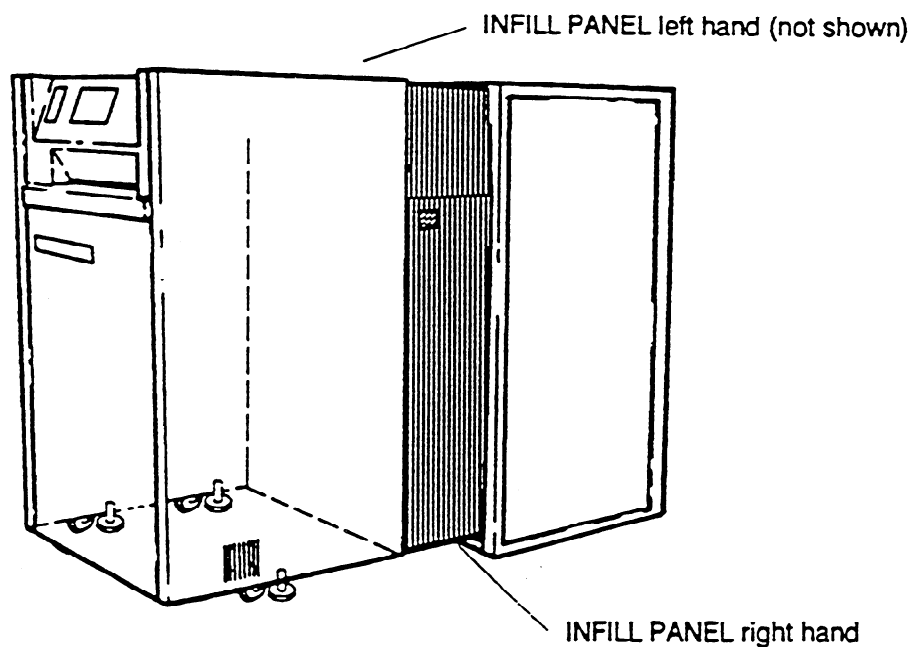


figure 20

13. Go to PART 6 "CONNECTING THE POWER".

5.3 CONNECTING ML 700 TO THE PROCESSOR X-OMAT M6B

1. Remove SCREWS

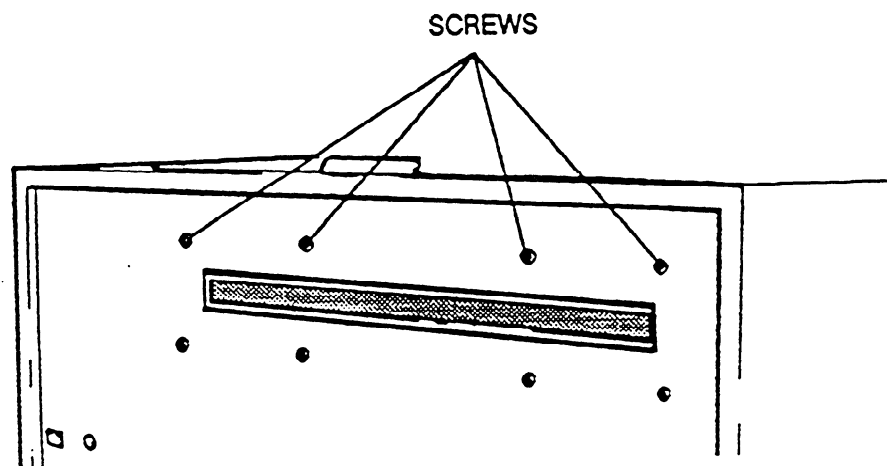


figure 21

2. Check that the 2 CENTERING BOLTS are tight in ADAPTER (see fig. 22).

3. Install ADAPTER on the M6B. Use SCREWS from step 1.

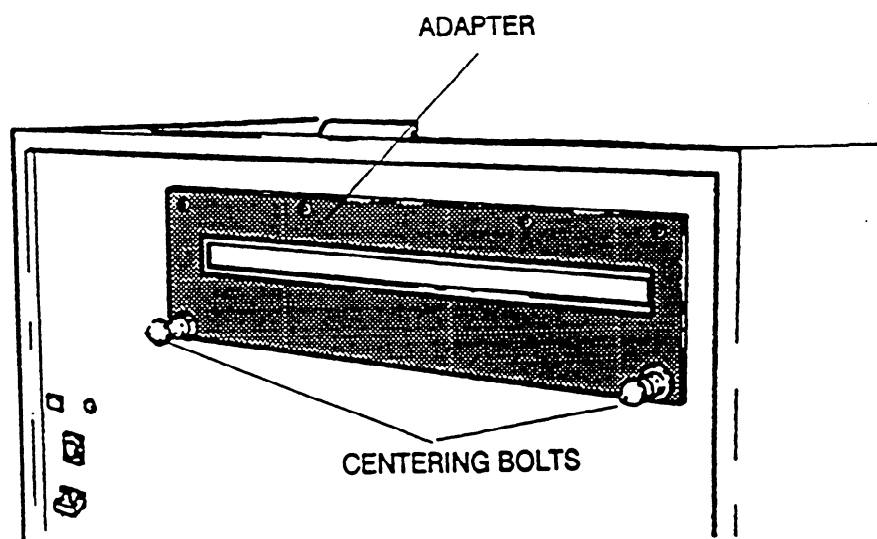


figure 22

4. Move ML 700 close to the PROCESSOR. Adjust CASTERS (level the ML700) on ML 700 to align holes in TUNNEL with the CENTERING BOLTS in the PROCESSOR. Use WRENCH 30 mm for LOCKNUTS.

5. Push ML 700 towards PROCESSOR all the way.

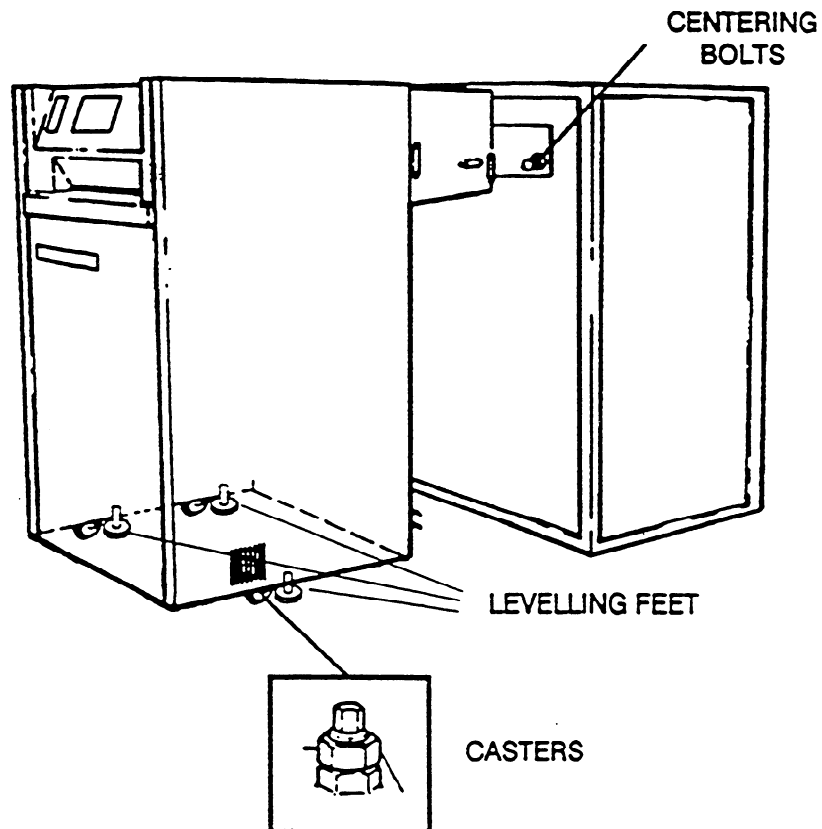


figure 23

6. Secure the ML 700 with the LEVELLING FEET.

7. Move LOCKING LEVER counterclockwise.

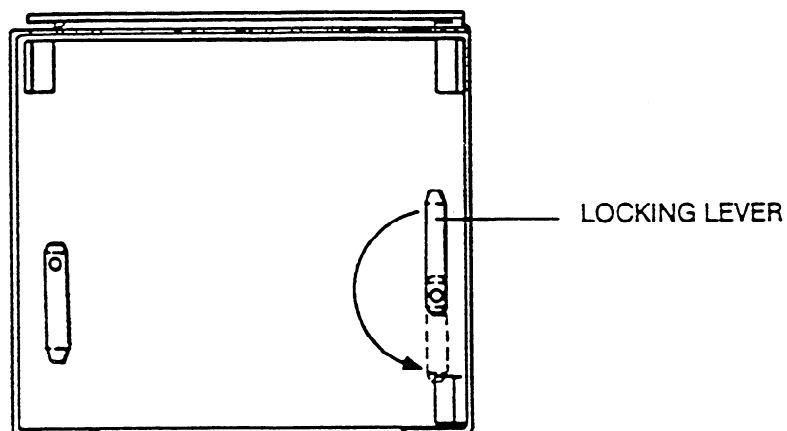


figure 24

8. Connect INTERFACE CABLE, with PHONE PLUG to M8 and with AMP-PLUG to ML 700.

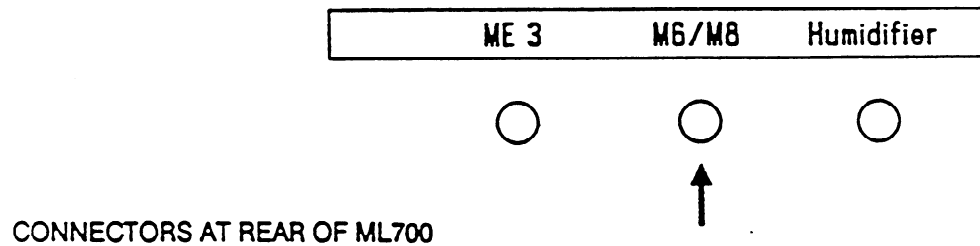


figure 25

9. Open TUNNEL COVER and RH COVER of ML 700.

10. Slide CONVEYOR DRIVE-BELT onto DRIVE-PULLEY in ML 700. See figure 26.

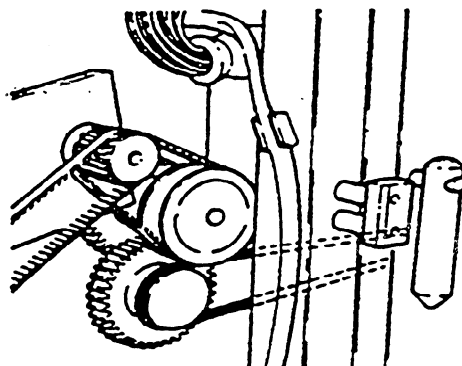


figure 26

11. Connect BROWN CONVEYOR PLUG to BROWN TUNNEL-PLUG and the AMP-CONVEYOR PLUG to the ML 700 RECEPTACLE.

12. Connect JUMPER M6 on PCB 9 of ML 700. This connection will adapt the TUNNEL-FILM SCANNING CIRCUIT to the transport speed of the PROCESSOR.

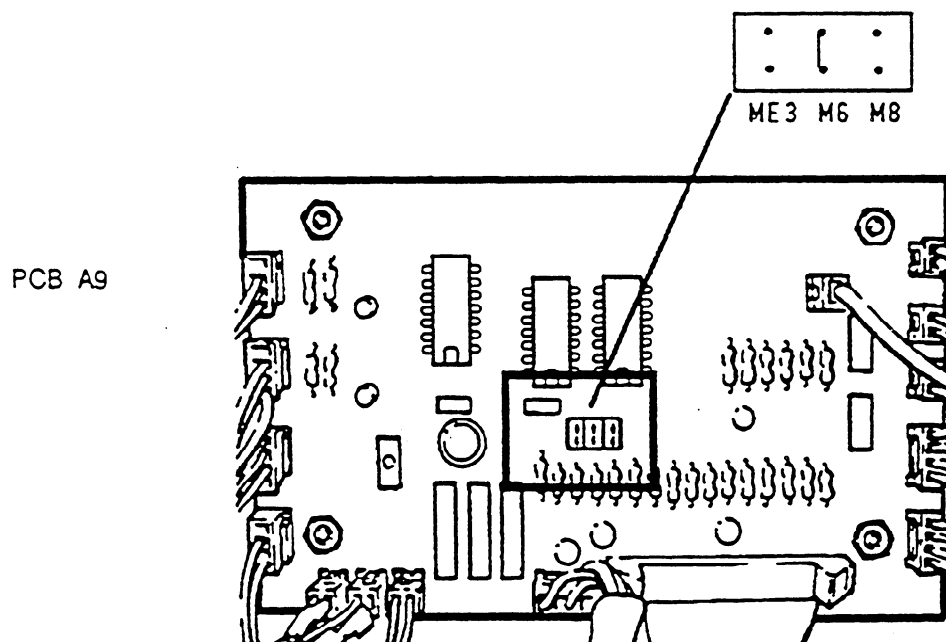


figure 27

13. Connect INTERFACE CABLE to ML 700.

14. Go to Part 6 "CONNECTING THE POWER".

5.4 MOUNTING THE ME-3 TUNNEL TO THE ML 700

1. Remove the TUNNEL from the INTERFACE CARTON .
2. Align holes of TUNNEL with LOCATING PINS in the ML 700. Push TUNNEL in all the way. Make sure HOOK is engaged on TUNNEL.

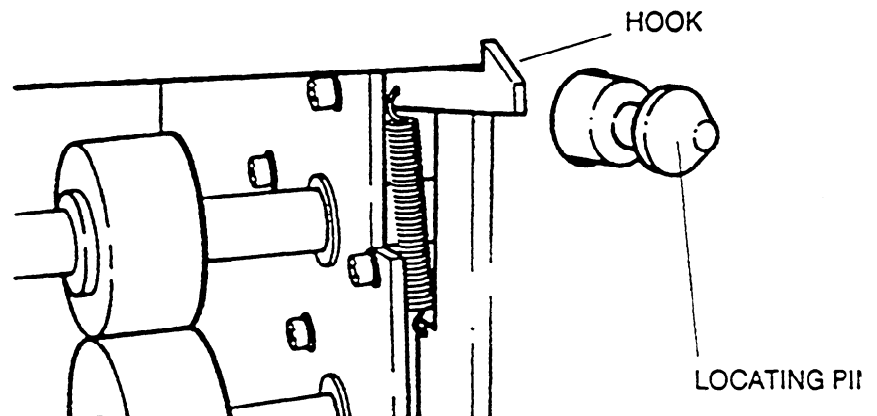


figure 28

3. Move LOCKING LEVER clockwise 1/2 turn .

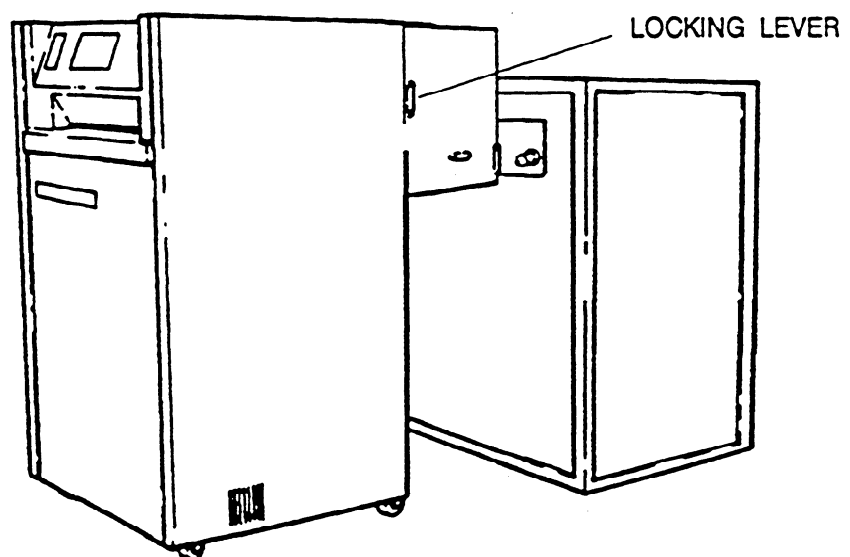


figure 29

4. If the ML 700 has to be installed with its right hand side to the wall, mount the 2 TUNNEL LOCKING LEVERS to the left hand side of the TUNNEL.

5.5 CONNECTING THE PROCESSOR ME-3 TO THE ML 700

1. Remove the SWITCHBOX from the PROCESSOR ME-3.

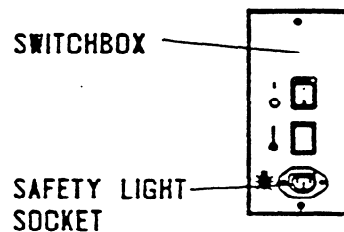


figure 30

2. Remove the COVER from the SWITCHBOX.

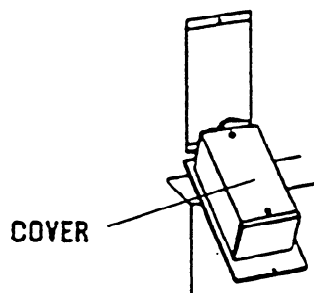


figure 31

3. Disconnect the 3 wires from the SAFETYLIGHT SOCKET. Insulate the 3 wires with the 3 CRIMP INSULATORS.

CRIMP
INSULATOR



figure 32

4. Remove and discard the SAFETYLIGHT SOCKET. Keep the screws.
5. Locate the 2 loose wires. Remove the INSULATING SLEEVE.

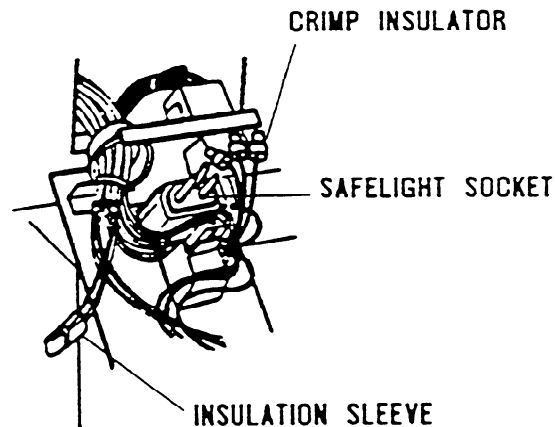


figure 33

6. Install the 2 MALE PINS on these 2 wires. Insert the PINS into the CONNECTOR HOUSING.

CONNECTOR HOUSING



MALE PIN

figure 34

7. Cut the PLUG/CABLE ASSEMBLY to a length of approx. 100 cm.

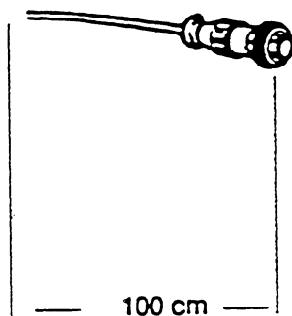


figure 35

8. Install this PLUG/CABLE ASSY. into PLATE together with STRAIN RELIEF.

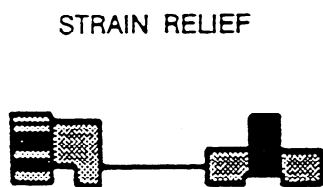


figure 36

PLATE



figure 37

9. Install the 2 FEMALE PINS on the 2 wires. Insert the PINS into the CONNECTOR HOUSING.

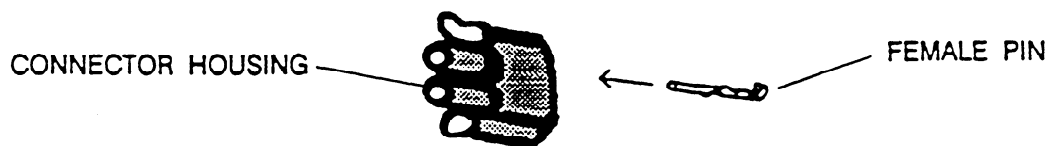


figure 38

- 10.** Install the PLATE together with the PLUG/CABLE ASSY. into the SWITCHBOX. Use SCREWS from step 4.

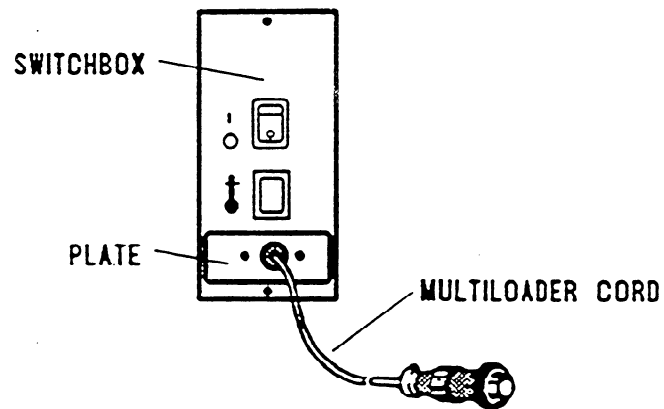


figure 39

- 11.** Connect the FEMALE CONNECTOR of the MULTILOADER CORD to the MALE CONNECTOR installed in step 6. Use CABLE TIE to hold the wires.

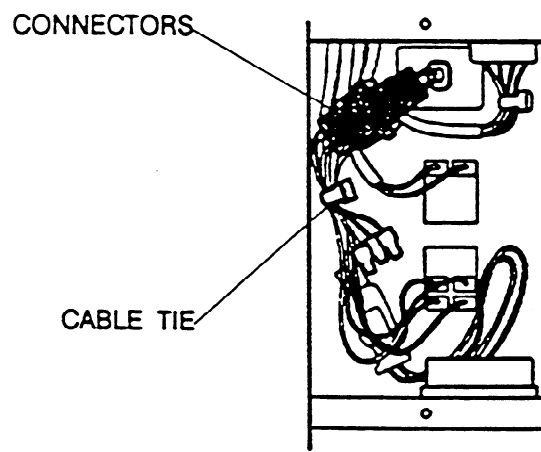


figure 40

12. Place COVER from step 2 on the SWITCHBOX.

13. On the PROCESSOR remove the COVER of the ELECTRICAL BOX (FILMEXIT side).

14. Remove the COVER of the left vertical WIRE DUCT. Locate the 2 loose wires. Remove the INSULATING SLEEVE.

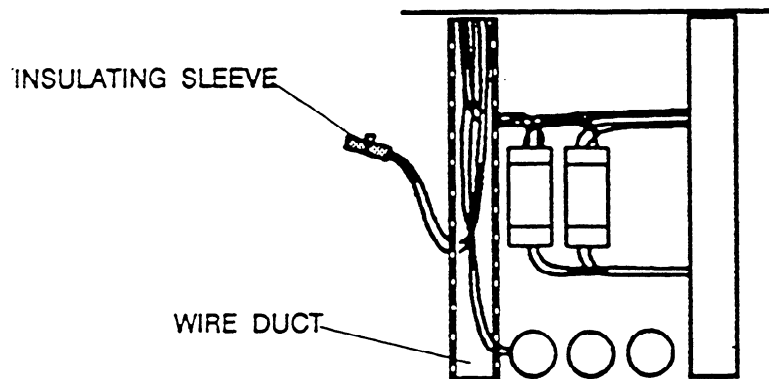


figure 41

15. Cut the HEATSHRINKABLE SLEEVE into 4 parts with same length. Place HEATSHRINKABLE SLEEVE over the 2 ends of wires from step 14. Solder the wires to the PINS of the contacts on the RELAY.

16. Place HEATSHRINKABLE SLEEVE over the 2 ends of the CONNECTOR/CABLE ASSY. Solder the 2 wires to the PINS for the coil on the RELAY. Place HEATSHRINKABLE SLEEVE over the 2 ends of the CONNECTOR/CABLE ASSY. Solder the 2 wires to the PINS for the RELAY COIL.

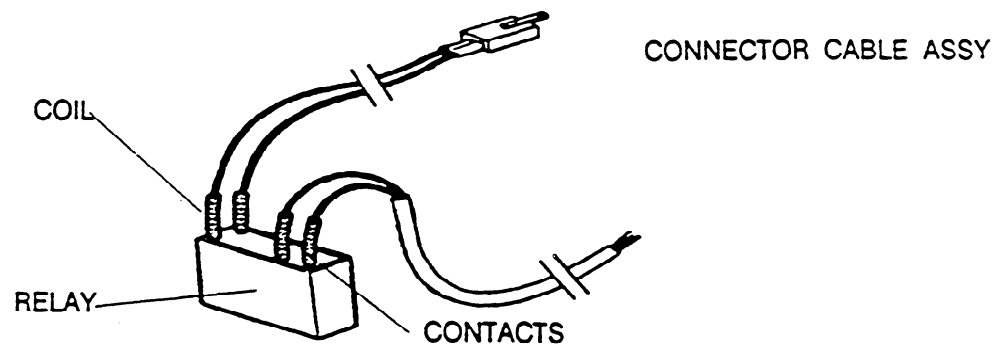


figure 42

17. Use HOT AIR BLOWER on the HEATSHRINKABLE SLEEVE. If HOT AIR BLOWER is not available, use SOLDERING IRON with caution.

18. Fasten the RELAY to the WIRE DUCT with CABLE TIE.

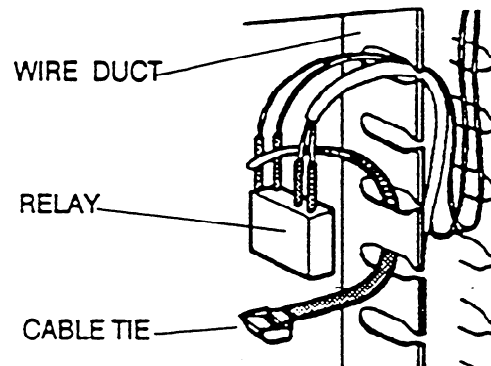


figure 43

19. Connect the PLUG of the CONNECTOR CABLE ASSY. to the CONNECTOR J 209 on the RELAY BOARD.

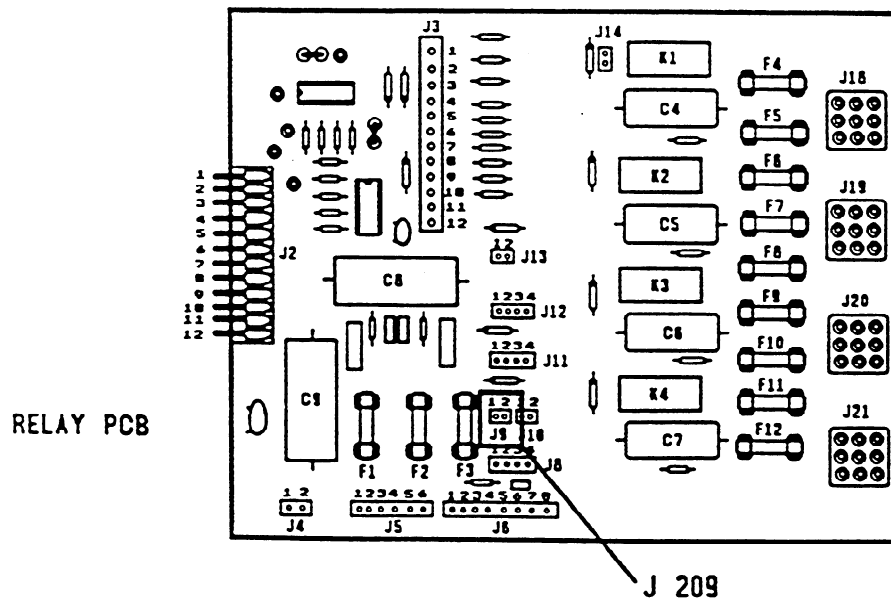


figure 44

- 20.** Install the WIRES of the CONNECTOR CABLE ASSY inside the WIRE DUCT. Place COVER on WIRE DUCT.

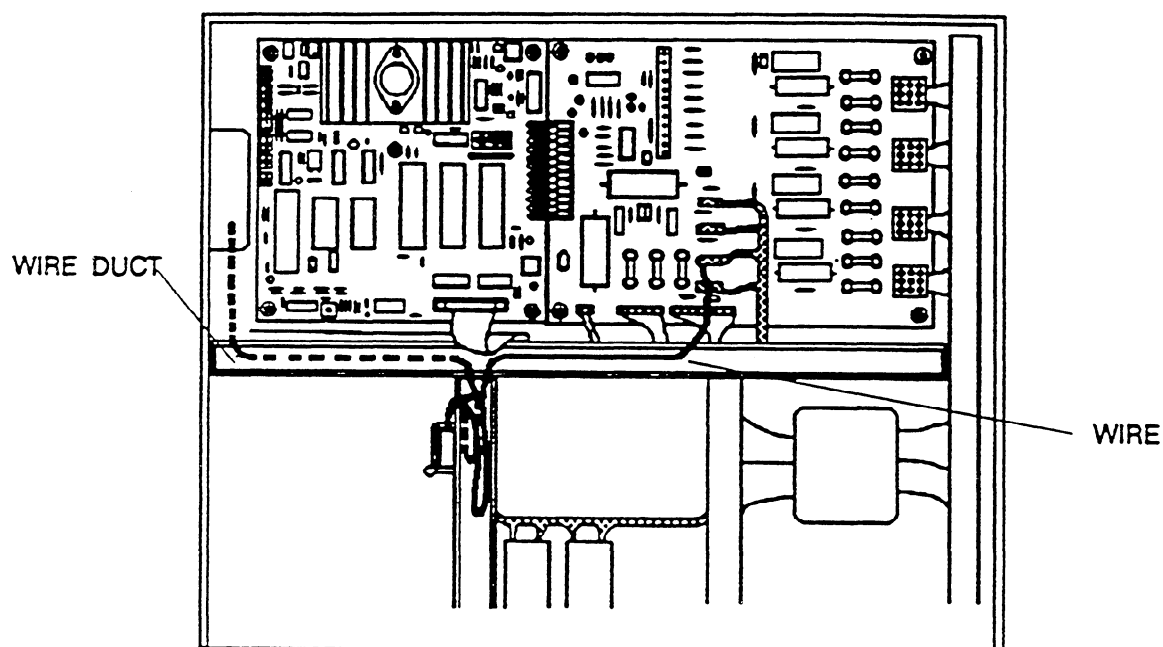


figure 45

- 21.** Install COVER on the ELECTRICAL BOX.

NOTE

The above alteration will prevent the ML700 from accepting a CASSETTE before the ME-3 is warmed up. During warm up, the ME-3 DRIVE will be off. Set PARAMETER "PROCESSOR READY" to 1.

23. Mount TEMPLATE PN 919301. Use the ENTRANCE SLOT of the PROCESSOR as reference. Drill 2 holes 5.3mm.

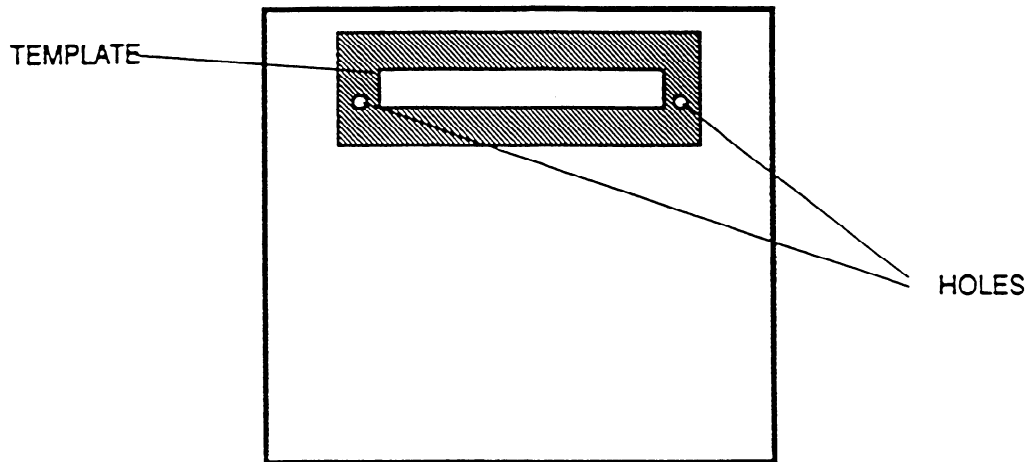


figure 46

24. Remove the TEMPLATE. From the ME-3 remove the I-R FILM DETECTOR ASSY. Install the CENTERING BOLTS PN 9186101, using WASHERS PN 4480481 and PN 4480171 and PLATES PN 9188831. Remove the 2 SCREWS, marked as shown. Install FEEDTRAY PN 9188843 in the ENTRANCE SLOT from the inside of the ME-3.

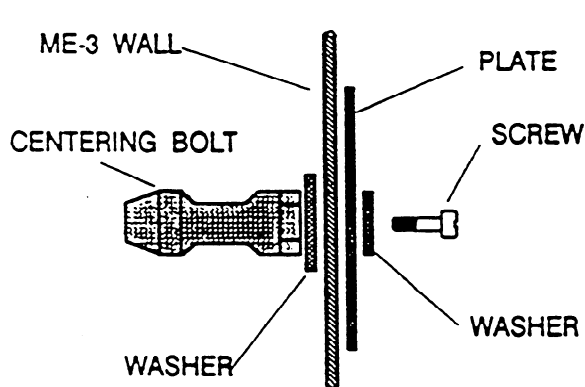


figure 47

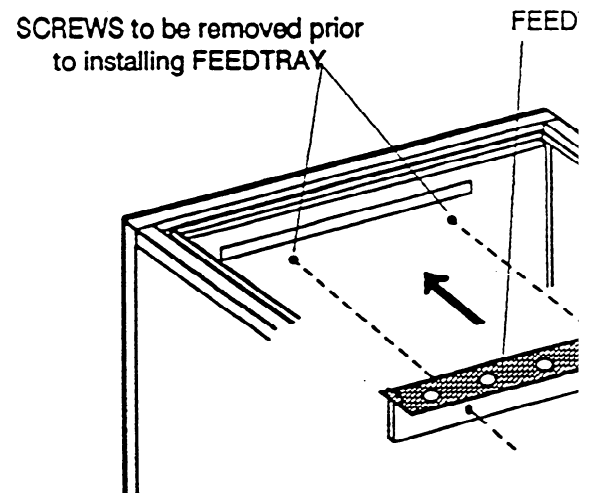


figure 48

25. Move ML 700 close to the PROCESSOR. Adjust CASTERS (level the ML 700) on ML 700 to align holes in TUNNEL with the CENTERING BOLTS in the PROCESSOR. Use WRENCH 30 mm for LOCKNUTS.

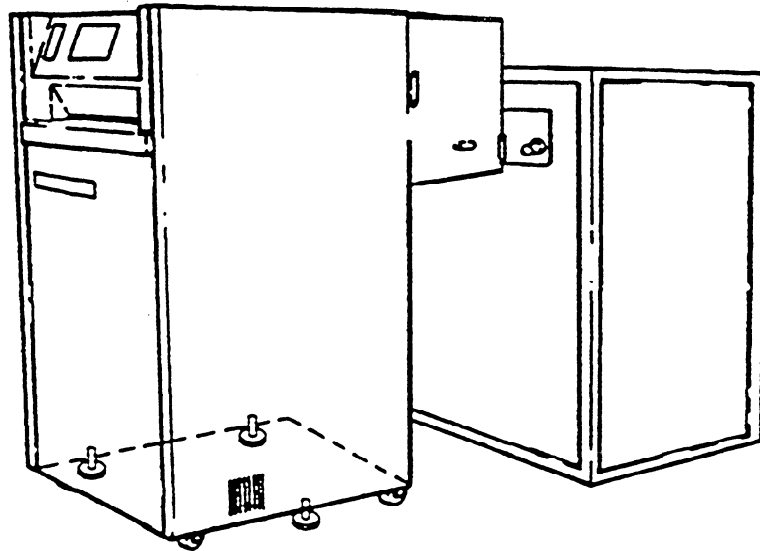


figure 49

26. Push ML 700 towards PROCESSOR all the way, and secure the ML700 with the LEVELLING FEET. Move the LOCKING LEVER counterclockwise.

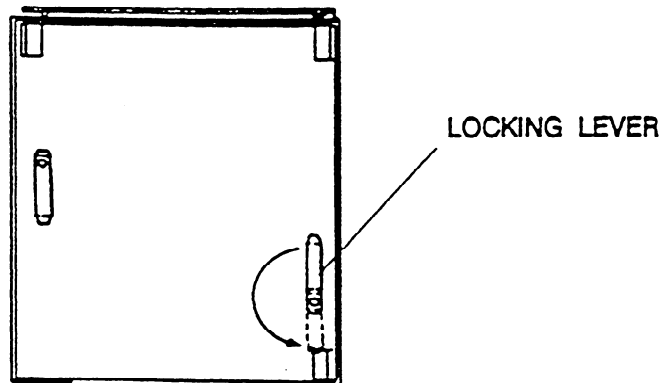


figure 50

27. Connect INTERFACE CABLE with AMP-PLUG to ML700.

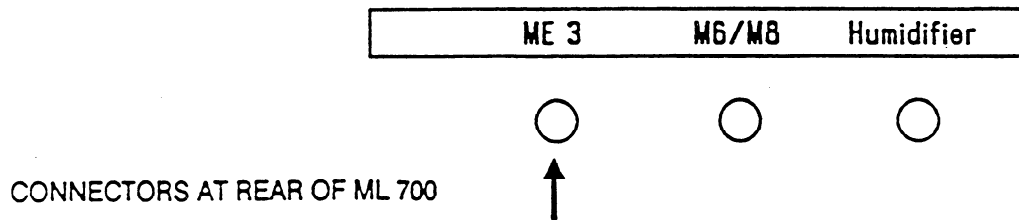


figure 51

28. Open TUNNEL COVER and RH COVER of ML700. Slide CONVEYOR DRIVE-BELT onto DRIVE-PULLEY in ML700.

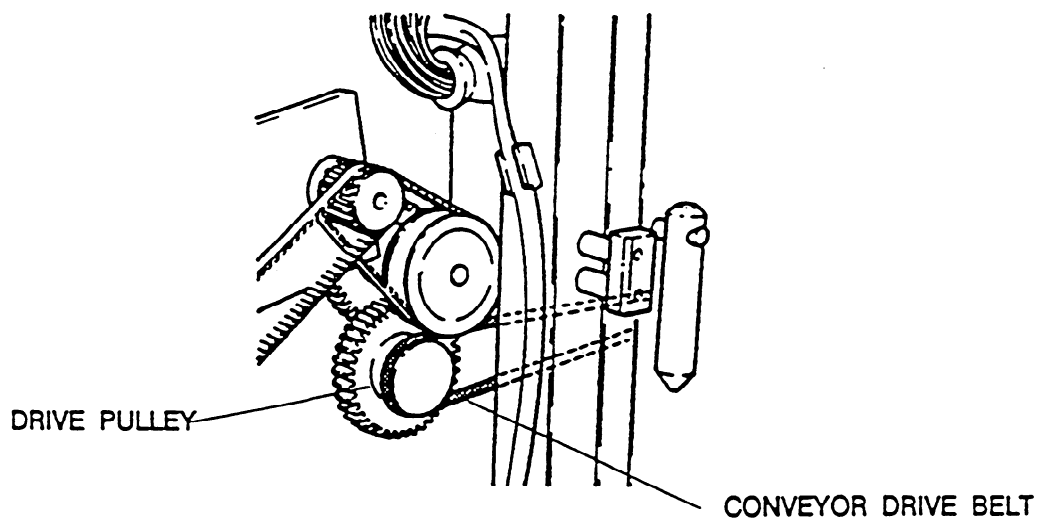


figure 52

29. Connect BROWN CONVEYOR PLUG to BROWN TUNNEL PLUG and the AMP-CONVEYOR PLUG to the ML700 RECEPTACLE.

30. Connect JUMPER on PCB A9 of ML700 as shown.

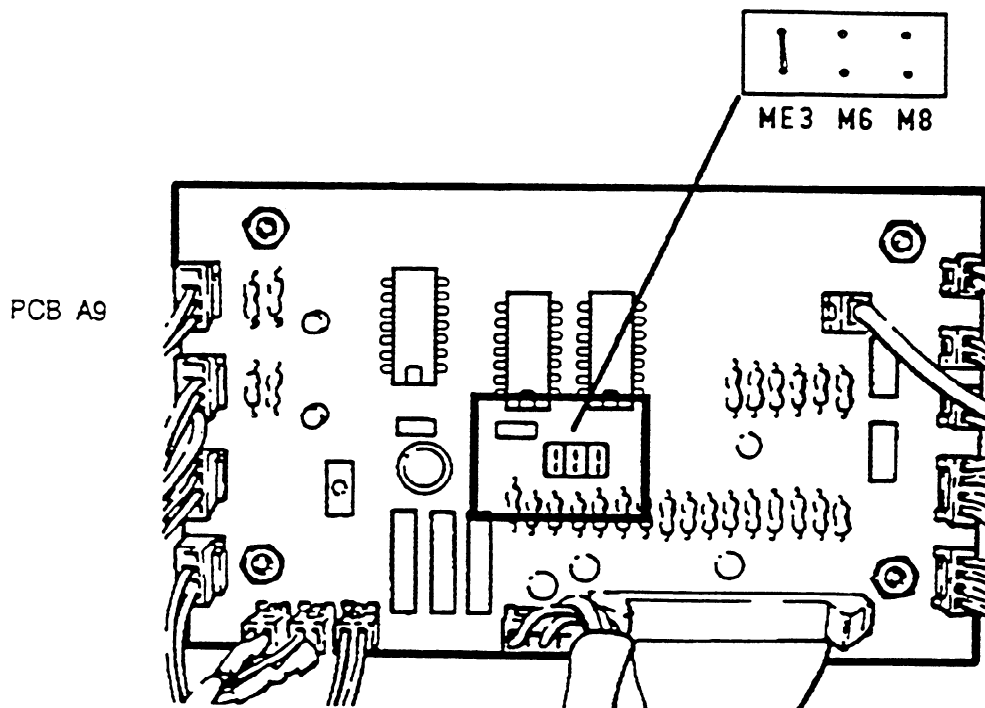


figure 53

31. Close all COVERS on ML700 and ME-3.

32. Go to PART 6 "CONNECTING THE POWER".

6. CONNECTING THE POWER

Note

The ML 700 has a operating voltage of 220 VAC. If your supply is 220 VAC you may connect the LINE CORD of the ML 700 directly to the 220 VAC supply. Use a LINE PLUG in accordance with local regulations.

IF YOUR SUPPLY VOLTAGE IS NOT 220 VAC, DO THE FOLLOWING:

- 1.** Pull out the DRAWER and open the FRONT DOOR of the ML 700.
- 2.** Remove the COVER in front of the LINE TRANSFORMER. The COVER is fastened with 1 TORX-SCREW

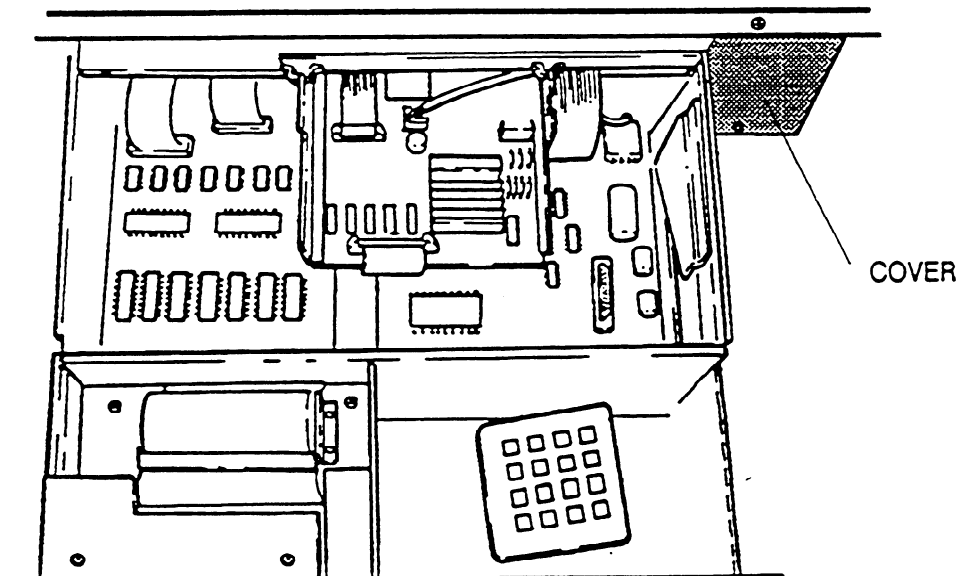


figure 54

accessible from the front of the ML 700 and with an ALLEN SCREW accessible through the open DOOR of the ML 700. The LINE TRANSFORMER is now visible.

3. Rewire the TRANSFORMER to suit your Linevoltage.

NOTE

The ML 700 is shipped from the Factory with TRANSFORMER-connection for a supply voltage of 220 VAC, i.e. WIRE 807 on TERMINAL 5.

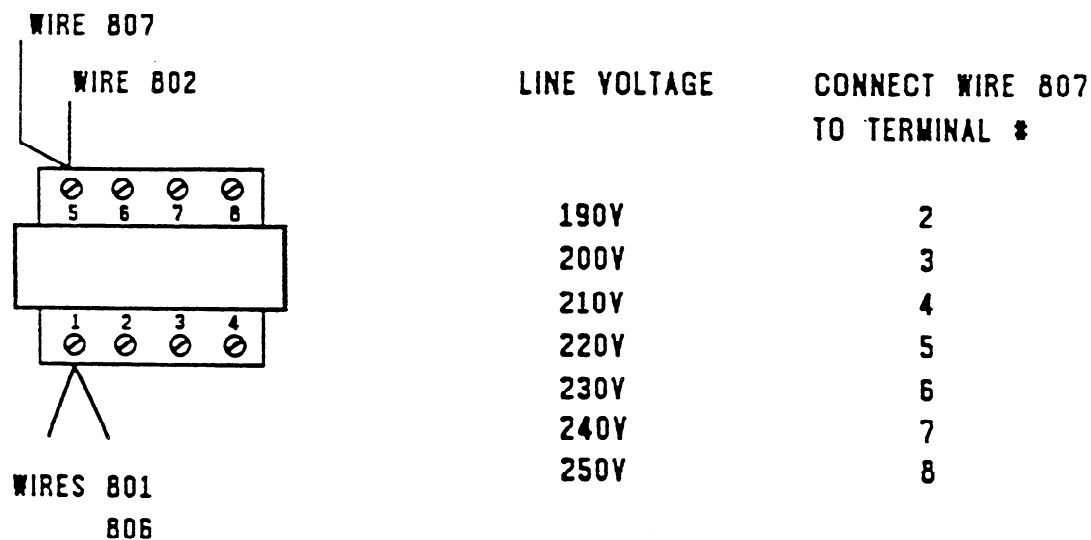


figure 55

7. STARTING UP THE ML 700

7.1 Installing LANGUAGE EPROMS

CAUTION

Use ESD WRIST STRAP and take ESD SAFETY PRECAUTIONS.

1. Install proper LANGUAGE EPROM, if not STANDARD LANGUAGE EPROM is used.

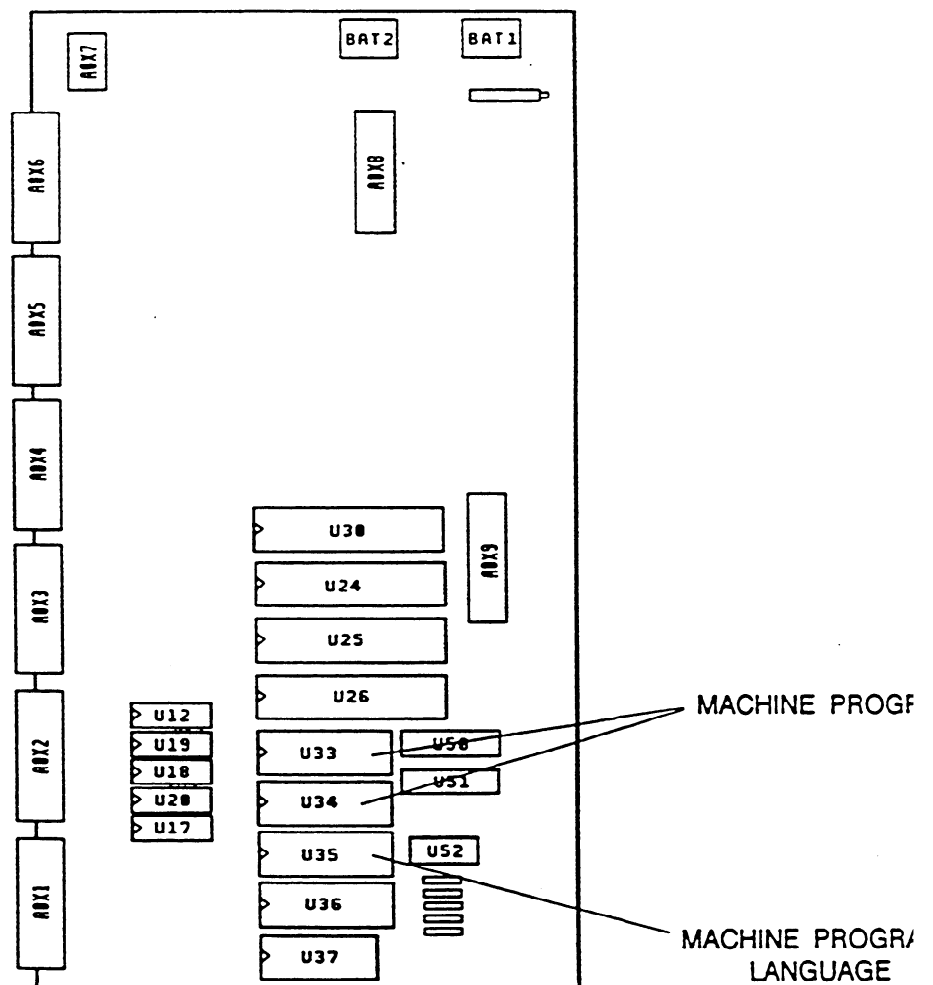


figure 56

7.2 Checking the ML 700

1. All COVERS must be closed.
2. Move SERVICE SWITCH S4 on PCB A0 to the right.

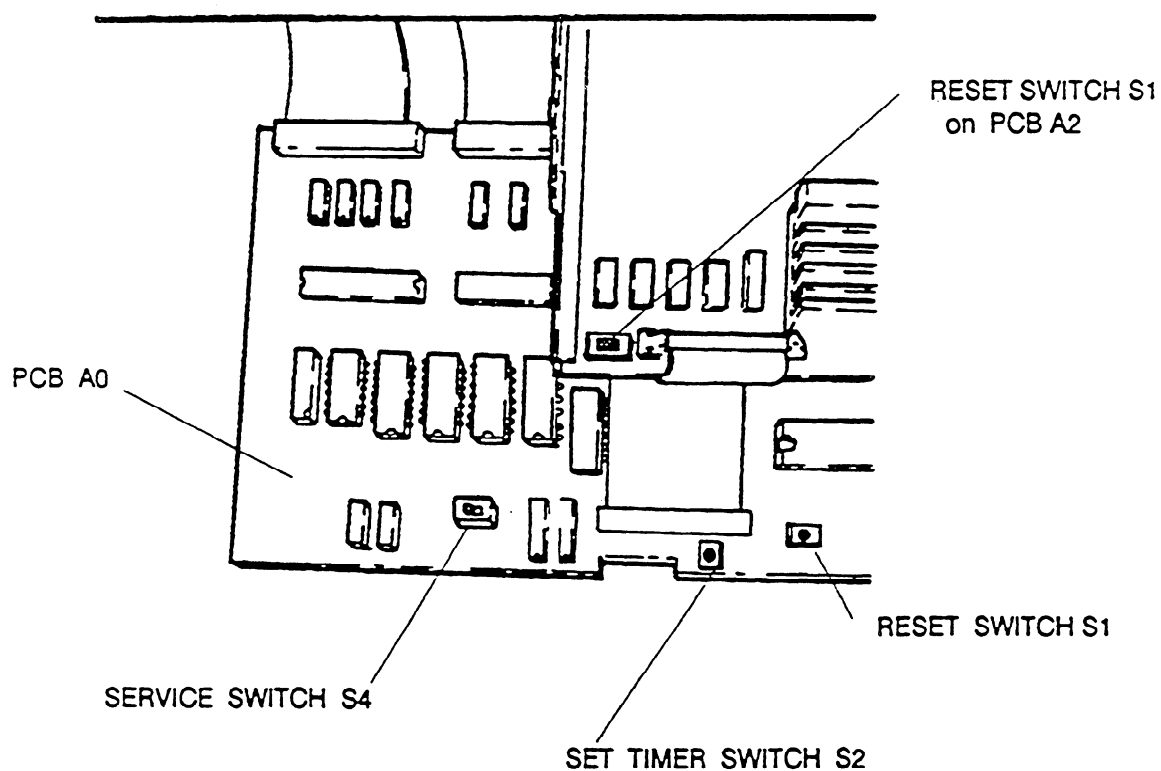


figure 57

3. Switch on ML700.
4. Wait until sizes of all inserted MAGAZINES are displayed.
5. On the upper 2 lines of the DISPLAY, lighted squares will appear.

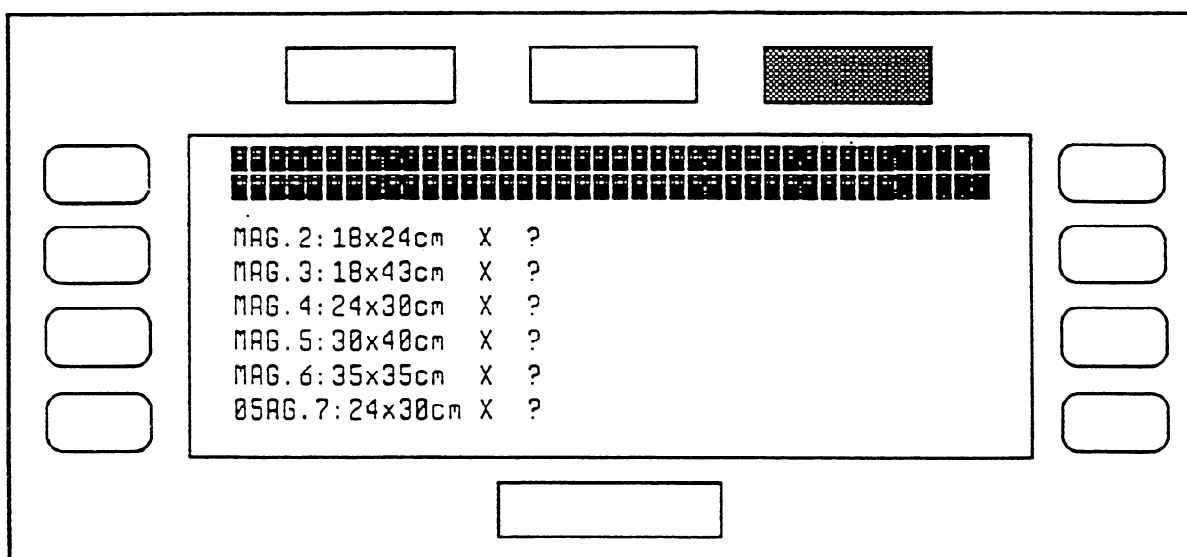


figure 58

6. The green READY LIGHT is on.
7. Move the SERVICE SWITCH S4 on PCB A0 to the left (see fig. 57).

8. Press on PCB A0 RESET SWITCH S1 and on PCB A2 S2 to enter the USER MODE.

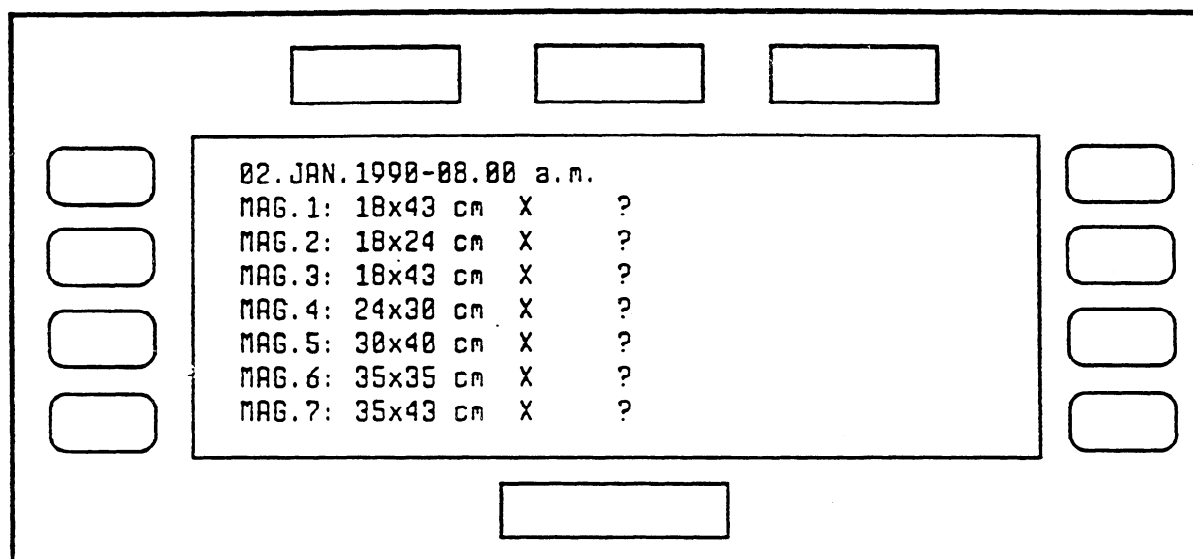


figure 59

NOTE

To go to SERVICE MODE ,normally FDAB, the current day (day only; for days from 1 to 9 use 0 as 1st digit) and twice 9 must be entered on the KEYPAD. But during initial start up, the SERVICE SWITCH S4 may be used to go to SERVICE MODE. This might be necessary because a valid date has not yet been entered. When using FDAB all columns SINCE LAST REPAIR in the STATUS REPORT are cleared.

9. Remove the SERVICE KEYPAD from the DRAWER.

10. If a valid date is displayed enter FDAB, DAY, DAY. Then do step 13.

11. If a non-valid date is displayed move the SERVICE SWITCH S4 on PCB A0 to the left.

12. Enter FDAB and 2 random KEYS.

13. Press KEY 9 twice to bypass the 2 ELAPSE TIME SCREENS.

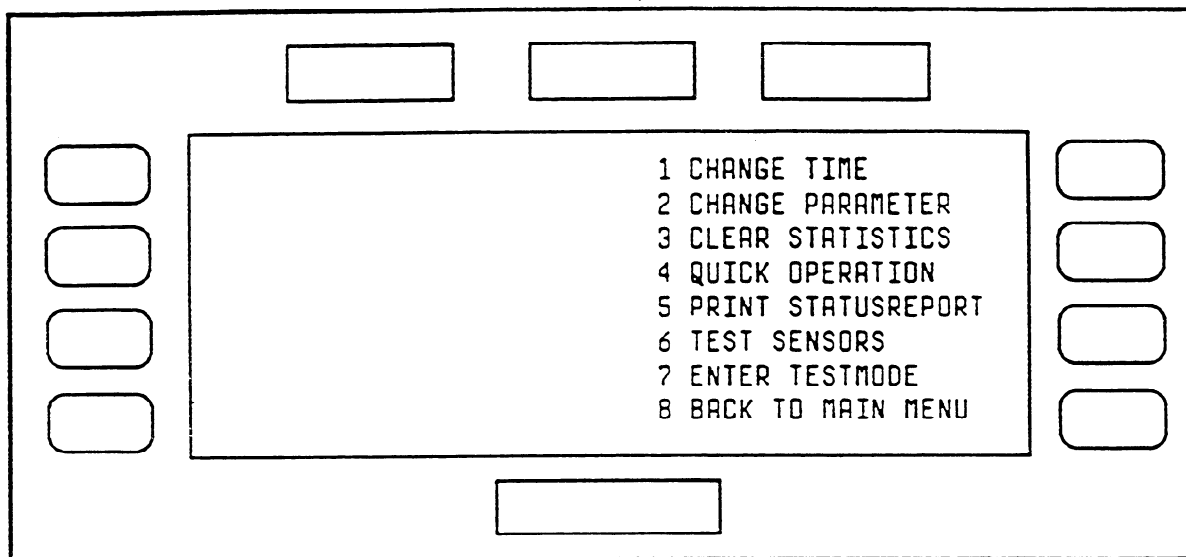


figure 60

14. Press KEY 1 to enter TIME SETTING MODE.

15. Press SET TIMER SWITCH S2 on PCB A0 (see fig 57). Keep S2 pressed.

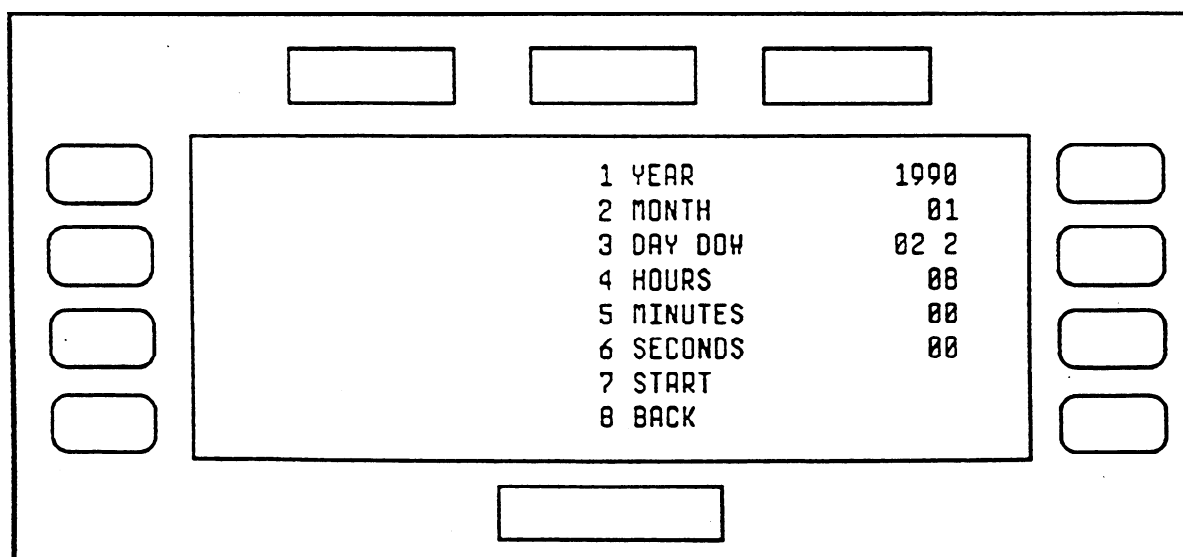


figure 61

NOTE

The values entered in step 16 to 20 are examples for TUESDAY JANUARY 2, 1990, time 13.54

16. Press KEY 1 for YEAR. YEAR-LINE will show 0000. Enter 1990 in that sequence.

17. Press KEY 2 for MONTH. MONTH-LINE will show 00. Enter 01 in that sequence.

18. Press Key 3 for DAY and DOW (DOW = DAY OF WEEK). DAY-LINE will show 00 0. ENTER 022 in that sequence.

DOW	MONDAY	=	1
	TUESDAY	=	2
	WEDNESDAY	=	3
	THURSDAY	=	4
	FRIDAY	=	5
	SATURDAY	=	6
	SUNDAY	=	7

19. Press KEY 4 for HOURS. HOUR-LINE will show 00. Enter 13 in that sequence.

20. Press KEY 5 for MINUTES. MINUTE-LINE will show 00. Enter 54 in that sequence.

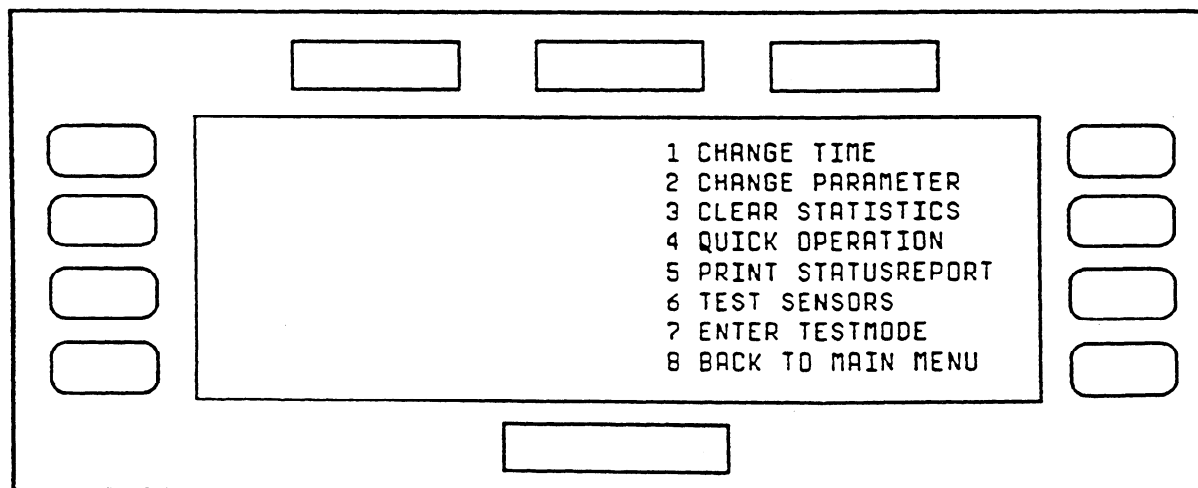


figure 62

21. Press KEY 7 to start CLOCK. Then release SET TIMER SWITCH S1.

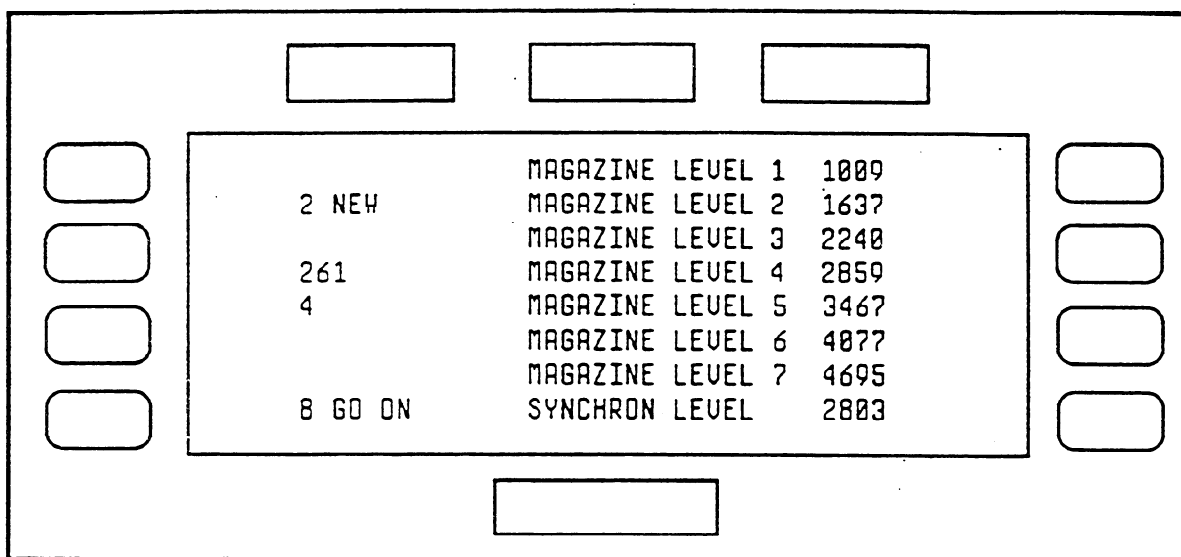


figure 63

22. Press KEY 8 to get the DISPLAY with SERVICE MODE OPTIONS.

23. Press KEY 2 to select OPTION "CHANGE PARAMETER"

24. Press KEY 2 to start the FILM POCKET SCAN RUN. During the SCAN RUN the steps between the 7 MAGAZINE REFERENCE POSITION, the CASSETTE LEVEL and the UPPER LIMIT SENSOR B17 (UL) on PCB A10 are counted. At the end of the SCAN RUN, the FILM POCKET will be at HOME POSITION. The count in line 4, on the left side of the DISPLAY, must be below 300. The count in line 5, on the left side of the DISPLAY must be below 9.

8. CHECKING THE PARAMETERS SOFTWARE VERSION 3.1

1. Press KEY 8 for additional PARAMETERS.

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3. KEY 2 ADDITIONAL STEPS.

Number of additional down steps (0.15mm/step) after the FILM PIN reached the top FILM in the MAGAZINE. This ensures that the SUCKERS are in close contact with the top FILM. If too many ADDITIONAL STEPS are used, PRESSURE MARKS on the FILM will show up.

RANGE :0-E

STANDARD :0

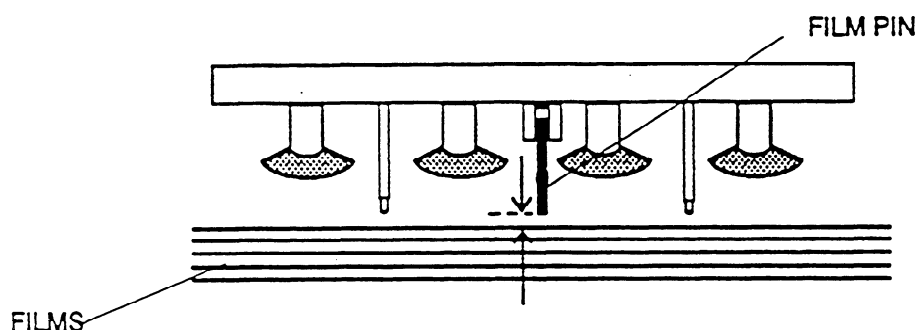


figure 65

4. KEY 3 CONTINUOUS LOOP.

If set to 1 a CASSETTE is always transported in and out and reloaded. This is used just for testing.

RANGE :0-1

STANDARD :0

5. KEY 4 INCH FLAG.

It can be selected how 24x30 and 30x35 CASSETTES are displayed.

0 = Actual MAGAZINE SIZE displayed in cm and inch.

1 = Actual MAGAZINE SIZE displayed in cm and inch. However 30x35 cm is displayed as in 11x14 inch and 24x30 cm is displayed as in 10x12 inch.

RANGE :0-1

STANDARD :0

6. KEY 5 LOWER POCKET.

Additional down steps for FILM POCKET SUCKER BAR into the CASSETTE. It prevents the unexposed FILM from floating out of the CASSETTE. It should be set together with PARAMETER "POCKET DELAY".

RANGE = 0-FE STANDARD = 0

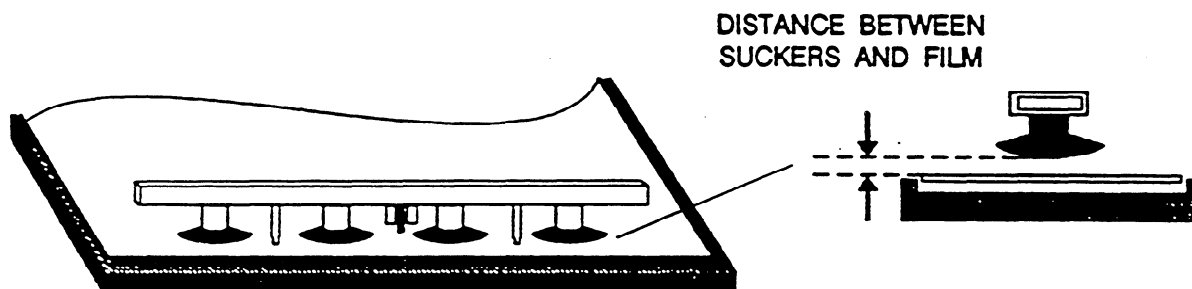


figure 66

7. PROCESSOR TIME.

This time is used to avoid false FILM JAM DETECTION at TUNNEL SENSOR REAR. The setting depends on the type of the PROCESSOR.

28 = ME-3/M6/M8

5A = INDUSTRIAL PROCESSOR M6I (requires a modified PCB A9)

RANGE = 0-B4 STANDARD = 28

8. KEY 7 FILM PRESENCE DETECTORs.

0 = off

1 = on

RANGE = 0-1 STANDARD = 1

CAUTION

If the FILM PRESENCE DETECTOR is switched off, the ML700 will no longer detect MIN-R2 CASSETTES. They are treated as normal X-OMAT CASSETTES

8. PRESS KEY 8 for additional PARAMETERS.

1	VACUUM OFF TIME	14
2	STEP BY STEP MODE	0
3	DOUBLE SHEET	1
4	TUNNEL FLAG	1
5	PROCESSOR FLAG	0
6	POCKET DELAY	00
7	ENABLE OPERATION	1
8	BACK	

figure 67

9. KEY 1 VACUUM OFF TIME.

The CASSETTE SUCKER BAR picks up the exposed FILM in the CASSETTE. As soon as SENSOR FOC (B6) DETECTS the LEADING EDGE of the FILM, the VACUUM OFF TIME is started. At the end of VACUL OFF TIME the VACUUM is released and the FILM has reached the TRANSPORT ROLLERS.

10. KEY 2 STEP BY STEP MODE.

Press KEY 0 to set the PARAMETER to 0.

11. KEY 3 DOUBLE SHEET DETECTOR.

The DOUBLE SHEET DETECTOR detects if more than one unexposed FILM is picked up from the MAGAZINE.

0 = off

1 = on

RANGE = 0-1 STANDARD = 1

12. KEY 4 TUNNEL FLAG.

If set to 0, the ML700 may be operated without the TUNNEL

0 = off

1 = on (normal operation)

RANGE = 0-1

STANDARD = 1

13. KEY 5 PROCESSOR FLAG.

This FLAG may be used to make the operation of the ML700 dependent on a "READY SIGNAL" from the PROCESSOR.

0 = NO "READY SIGNAL" necessary from the PROCESOR to operate the ML700.

1 = Operation of ML700 depends on "READY SIGNAL" from PROCESSOR. If not "READY" the DISPLAY will show:

PROCESSOR NOT READY

2 = If the DISPLAY shows "PROCESSOR NOT READY", override is possible by inserting a CASSETTE.

RANGE = 0-2

STANDARD = 1

NOTE

If the ML700 is connected to a PROCESSOR MODEL ME-3 the FLAG must be set to 1 because the ME-3 DRIVE is off during warm up.

The PROCESSOR READY KIT is optional :

PROCESSOR READY KIT M6B	Cat .No. 7094865
PROCESSOR READY KIT M6AW	Cat. No. 7094873
PROCESSOR READY KIT M8	Cat. No. 7094881

The KIT for ME-3 is part of the ME-3 INTERFACE and has not to be ordered separately.

14. KEY 6 POCKET DELAY.

Withdrawing the FILM POCKET SUCKER BAR from the CASSETTE after the FILM is released may be delayed. This becomes necessary if an unexposed FILM floats out of the CASSETTE. The PARAMETER may be set in steps of 50 ms. It should be set together with PARAMETER "LOWER POCKET".

NOTE

Every value other than 0 will increase the CYCLE TIME.

15. KEY 7 ENABLE OPERATION.

In case of an error it will be set automatically to 0. Set it to 1 before leaving the SERVICE MODE. If this PARAMETER is not set to 1, ERROR CODE *D2* will be displayed after leaving the SERVICE MODE. With this FLAG the ML700 may be prevented from returning to the USER MODE. This may be necessary to prevent the operation of the ML700 by the customer.

RANGE = 0-1

16. Go to beginning of SERVICE MODE to get the SERVICE MODE OPTIONS.

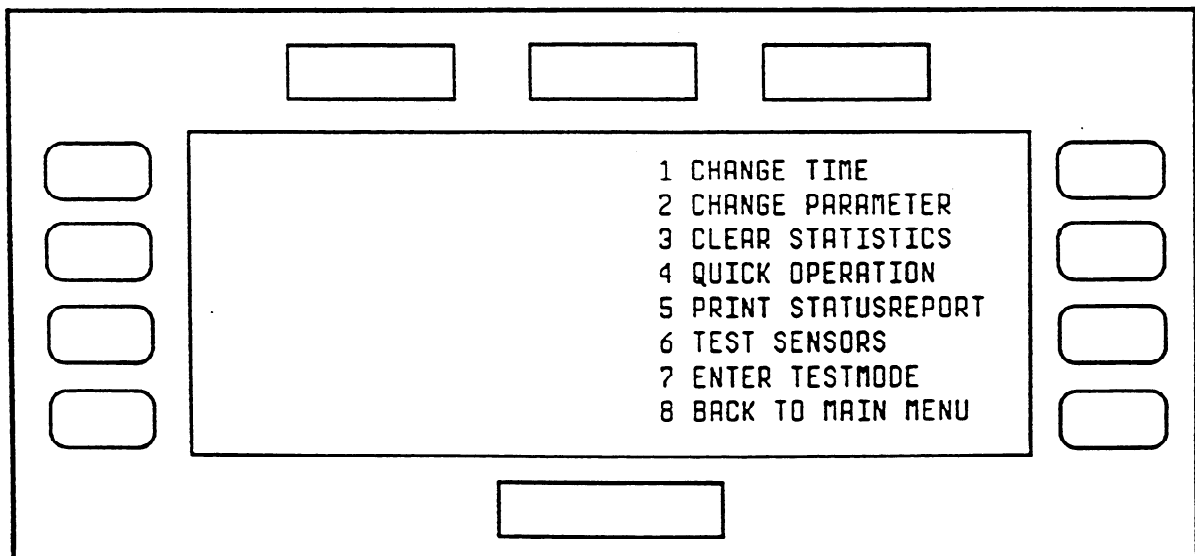


figure 68

9. CLEARING MEMORIES

1. Press KEY 3 to select OPTION "CLEAR STATISTICS"

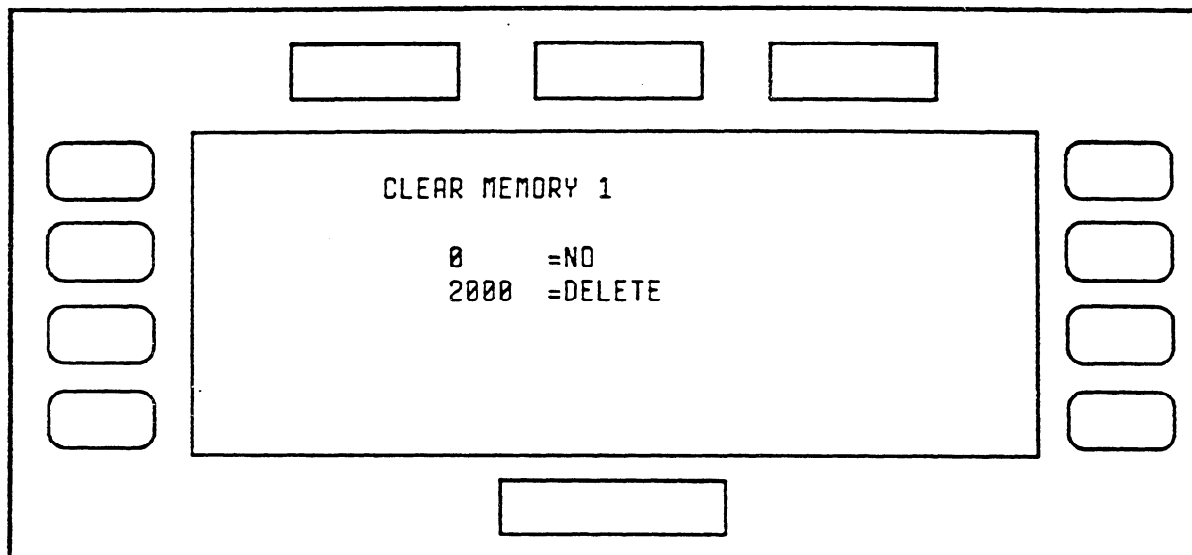


figure 69

NOTE

The MEMORY has 5 sections:

MEMORY 1 contains	FILM STATISTICS JANUARY - DECEMBER and GRAND TOTAL
MEMORY 2 contains	FILM STATISTICS by SIZES and PARAMETER SETTINGS
MEMORY 3 contains	TYPE 1 TOTAL CYCLES and TYPE 2 TOTAL CYCLES
MEMORY 4 contains	PERFORMANCE INDICATORS and PROGRAM STATUS
MEMORY 5 contains	ASLSC (actuations since last service call) NUMBER of SERVICE CALLS MABSC (mean actuations between service calls) ACTUATIONS TOTAL

NOTE

Clear all 5 MEMORIES.

2. Enter 2000. The DISPLAY shows CLEAR MEMORY 2.
3. Enter 2000. The DISPLAY shows CLEAR MEMORY 3.
4. Enter 2000. The DISPLAY shows CLEAR MEMORY 4.
5. Enter 2000.

10. ENTERING DATA**NOTE**

After all 5 MEMORIES are cleared, the DISPLAY will show

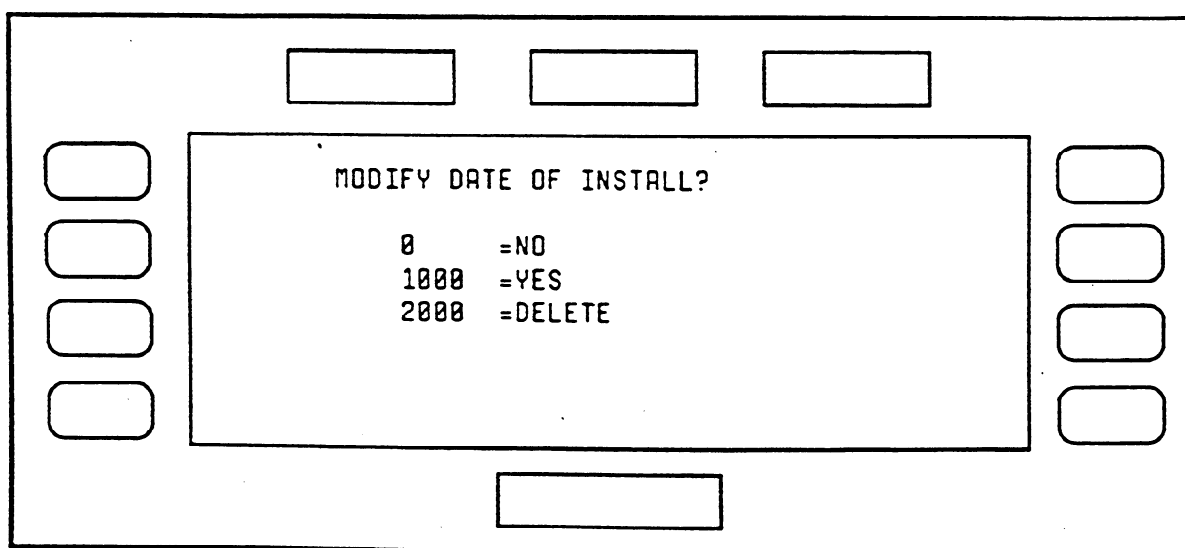


figure 70

1. ENTER 2000 and the DISPLAY will show:

MODIFY UNIT ID/SER.NO.?

0 =NO
1000 =YES
2000 =DELETE

figure 71

2. Enter 2000 and the DISPLAY will show:

MODIFY NAME & ADDRESS?

0 =NO
1000 =YES
2000 =DELETE

figure 72

3. Enter 2000 and the DISPLAY will show:

The diagram shows a rectangular keypad layout. At the top, there are three empty rectangular boxes. Below these, on the left side, are four vertically stacked empty oval buttons. On the right side, there are four vertically stacked empty oval buttons. In the center, there is a large rectangular display area. Inside this display, the following text is shown:

C	D	E	F
89AB	KLMN	WXYZ	! ? & e
4567	GHIJ	STUU	. , ! s
0123	CDEF	OPQR	< ^ v >
D.O.I.: 01.02.90		U.I.N.: 0023	
KODAK AG STUTTGART			

Below the display area, there is one empty rectangular box.

figure 73

NOTE

In order to enter certain CHARACTERS the SECTION KEYS C,D,E,F must be entered first.

If selected, + + + will appear above the section.

CHARACTER SECTION CDEF correspond to the LAYOUT of the ESR KEYPAD.

e = escape

s = space

EXAMPLE FOR ENTERING HOSPITAL NAME:

"HOSPITAL A"

1. Press KEY D for SECTION.

2. Press KEY H H

3. Press KEY E for SECTION.

4. Press KEY O O

5. Press KEY S S

6. Press KEY P P

7. Press KEY D for SECTION.

8. Press KEY I I

9. Press KEY E for SECTION.

10. Press KEY T T

11. Press KEY C for SECTION.

12. Press KEY A A

13. Press KEY D for SECTION

14. Press KEY L L

15. Press KEY F for SECTION

16. Press KEY S for SPACE

17. Press KEY C for SECTION

18. Press KEY A

A

19. To go to the SERVICE MODE OPTIONS press KEY F for SECTION and then KEY E for ESCAPE.

20. To check data enter the following :

3 0 0 0 0 0 0 0 1 0 0 0

NOTE

1. MEMORIES 1 and 2 are printed in the USER MODE. Press BUTTON 2 for display. Press BUTTON 5 for FILE USAGE PRINT OUT.
2. All COLUMNS in the STATUS REPORT with heading "SINCE LAST REPAIR" will be cleared when leaving SERVICE MODE.

NOTE

PRINT STATUS REPORT BEFORE LEAVING SERVICE MODE.

STORE THE STATUS REPORT IN THE DRAWER.

21. If the ML 700 is used with C3 CASSETTES do the procedure APPENDIX C now.

11.1 REFLECTIVE STICKERS

NOTE

In order to recognize a NO-FILM CONDITION in the CASSETTE, REFLECTORS must be installed on the CASSETTE SCREENS. For CASSETTE TYPE 2 and MAMMO CASSETTE identification a REFLECTIVE STICKER must be on the LID of the CASSETTE. To install the REFLECTORS the following is needed:

REFLECTIVE STICKERS PN 9194551 8x15mm for C-1, C-2, C-3 BOTTOM SCREEN ,MIN R2 and CRT CASSETTES.

REFLECTIVE STICKERS PN 9194561 6x10mm for C-3 LID SCREEN.

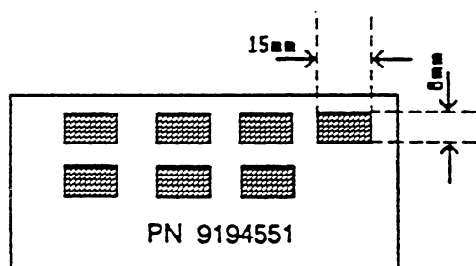


figure 74

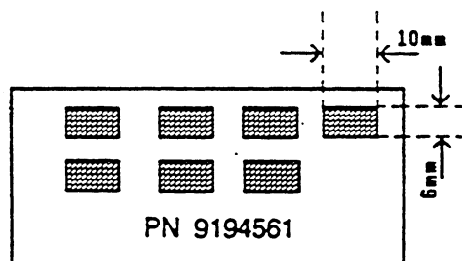


figure 75

1. Peel off the REFLECTIVE STICKERS from the SHEET.
2. To apply the REFLECTIVE STICKERS, use the TEMPLATES.

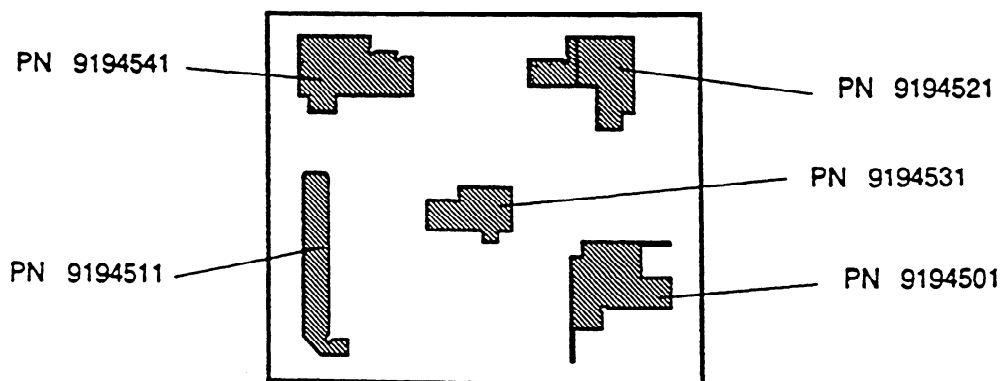


figure 76

C1 CASSETTES

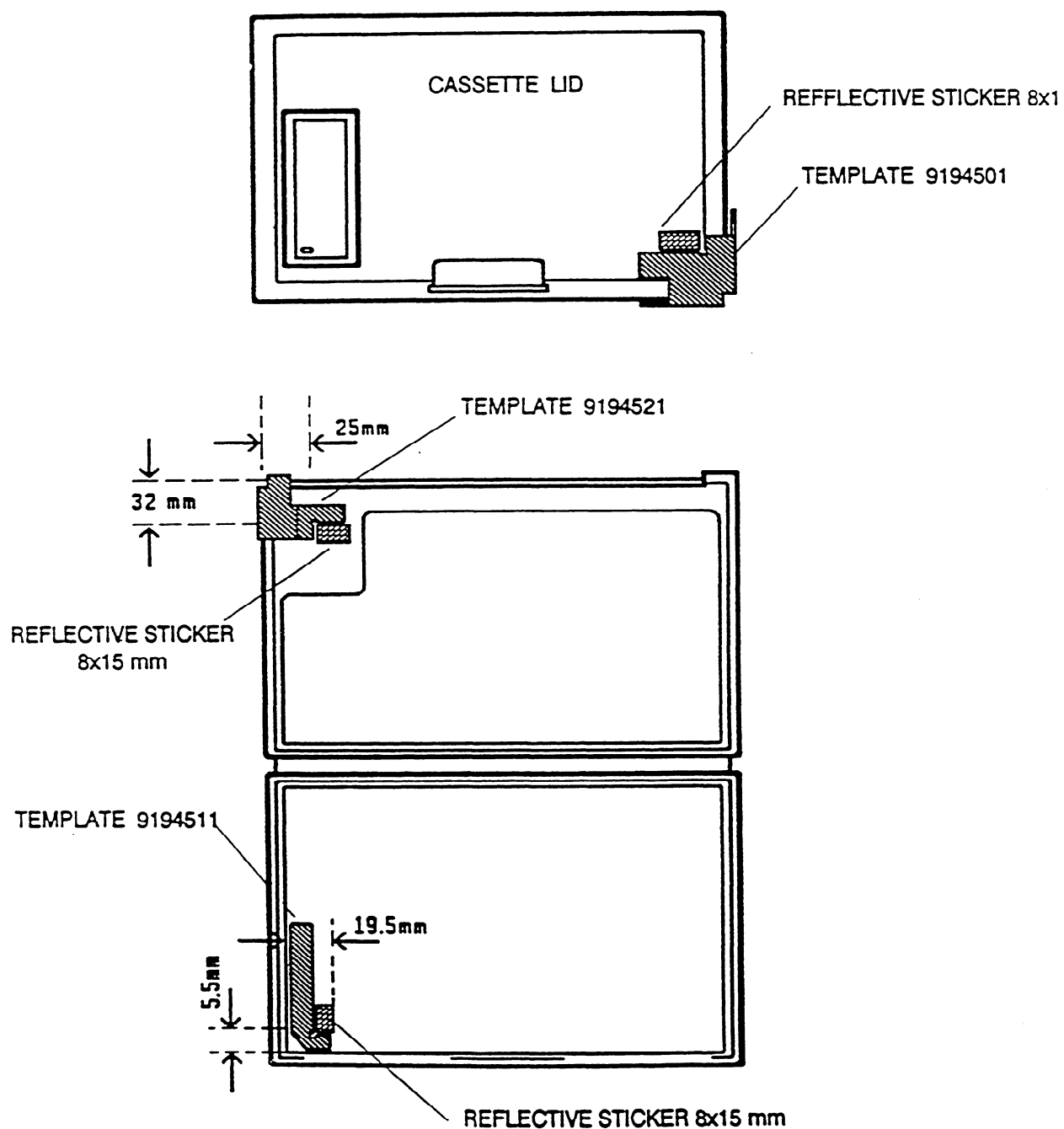


figure 77

C2 CASSETTES

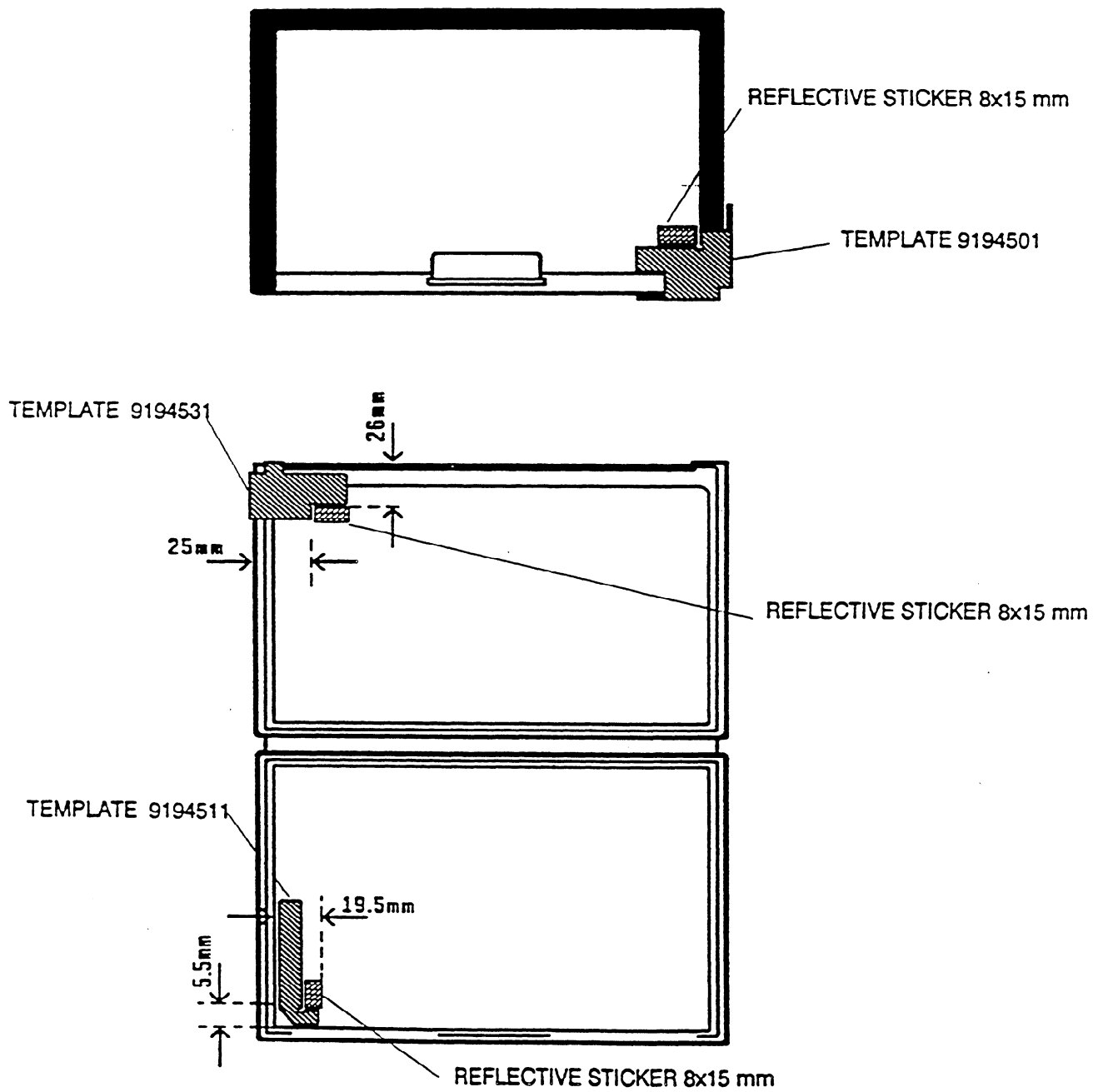


figure 78

C3 CASSETTES

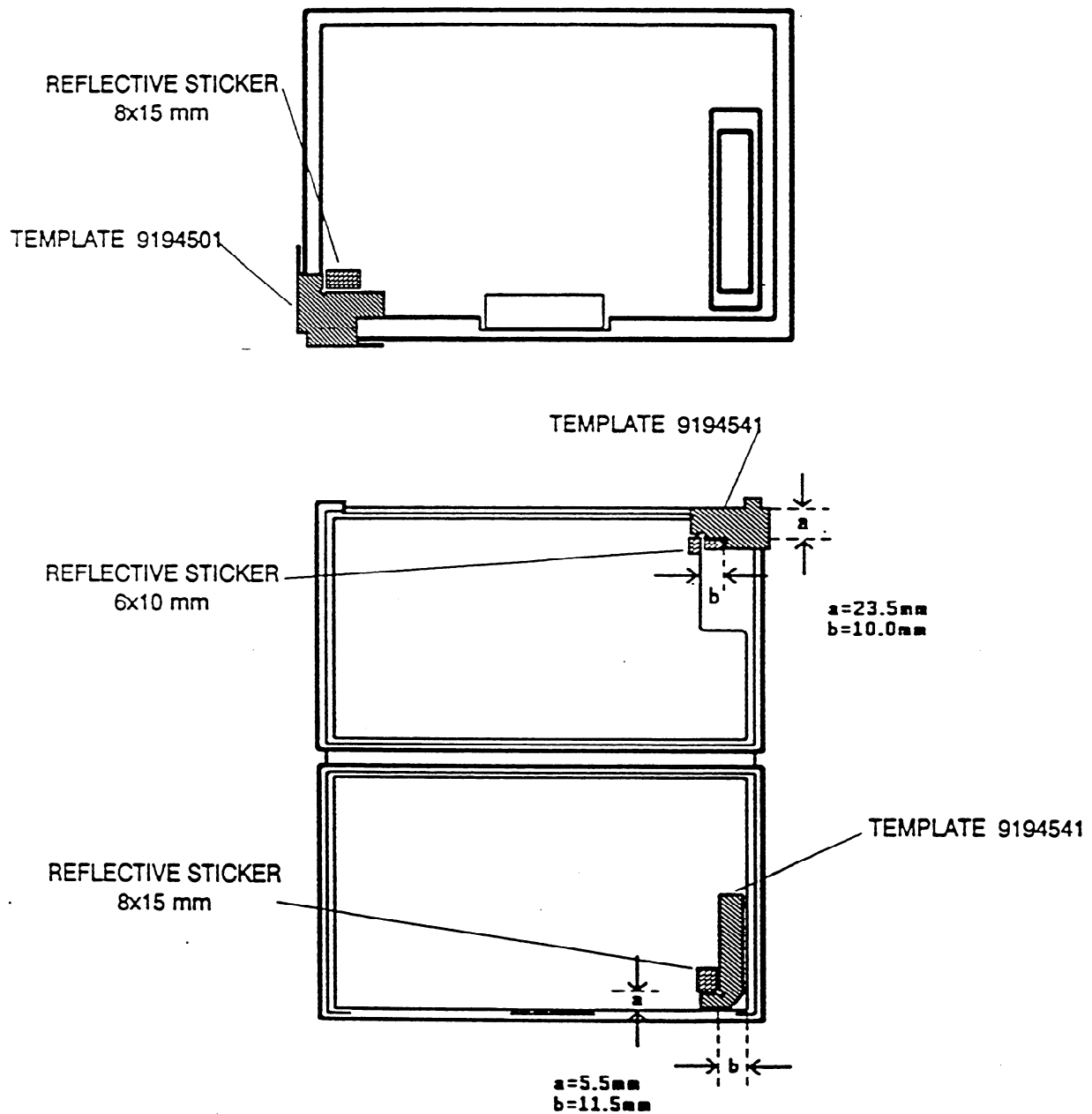


figure 79

CRT CASSETTES (VIDEO FILM HOLDER)

The CRT CASSETTES are detected by their unique length. A length count of 86 gives a CRT-CASSETTE 8x10 inch. After the CASSETTE TYPE (CRT TYPE 1 or CRT TYPE 2) is determined, the FILM PRESENCE DETECTOR is turned off. No REFLECTIVE STICKERS are used inside the CASSETTE. To attach the REFLECTIVE STICKERS for TYPE 2, two recesses are provided on the CASSETTE LID. No TEMPLATE is needed.

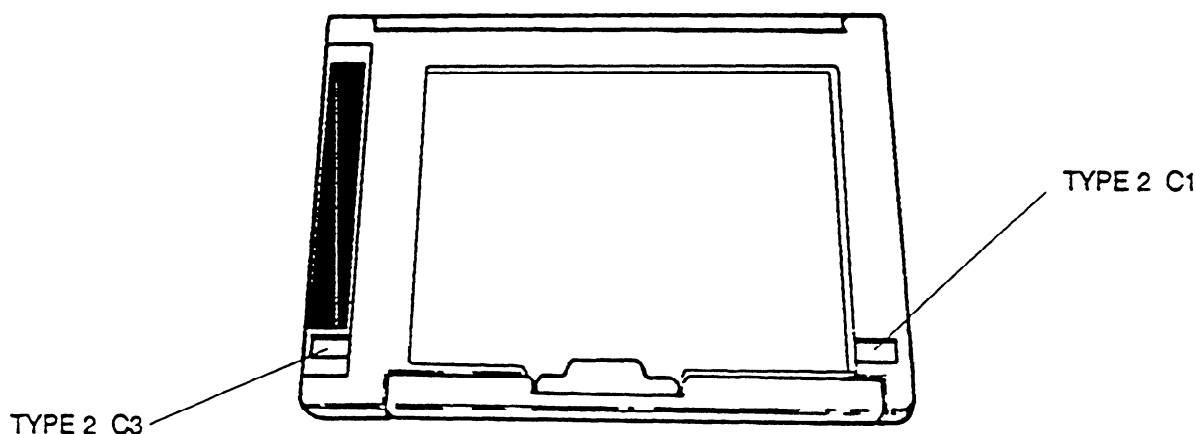


figure 80

MAMMO CASSETTES (MIN-R2)

The MAMMO CASSETTES are detected by size and by a REFLECTIVE STICKER at the outside of the CASSETTE. For the position of the MAMMO and the TYPE 2 STICKERS see figure 81. To fix the TYPE 2 SICKER for C3 and the MAMMO STICKER for C1 use TEMPLATE 9194501. For TYPE 2 C1 and MAMMO C3 use recess which is provided. Make sure that the REFLECTIVE STICKER is close to the edge of the WINDOW CUTOUT. **Test the adjustment of the FILM PRESENCE DETECTOR TYPE 2 with MAMMO and X-OMATIC CASSETTES because there is an offset of 7 mm between the TYPE 2 STICKERS.** If necessary increase the gain of the SENSOR. For positioning the REFLECTIVE STICKERS inside the CASSETTE see figures 82 and 83.

MAMMO CASSETTES

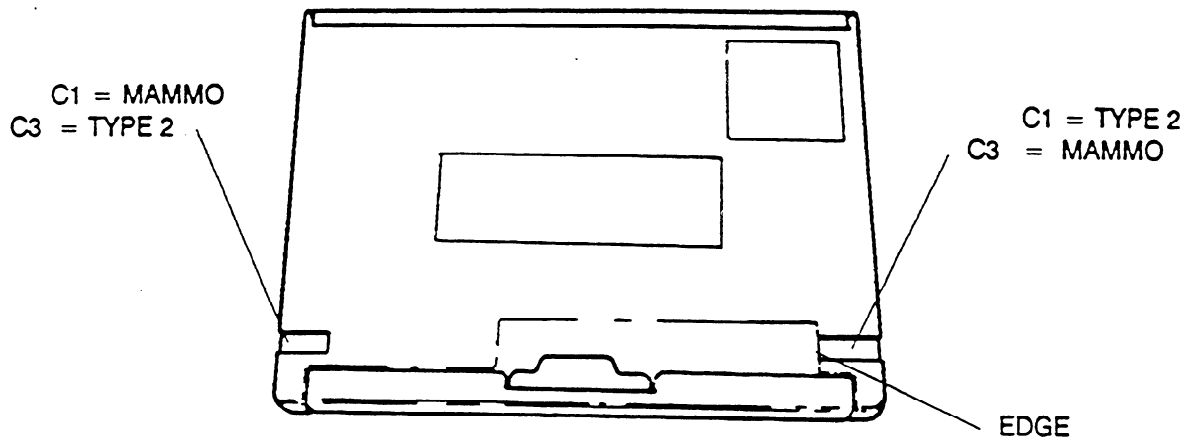


figure 81

MAMMO C1 CASSETTES

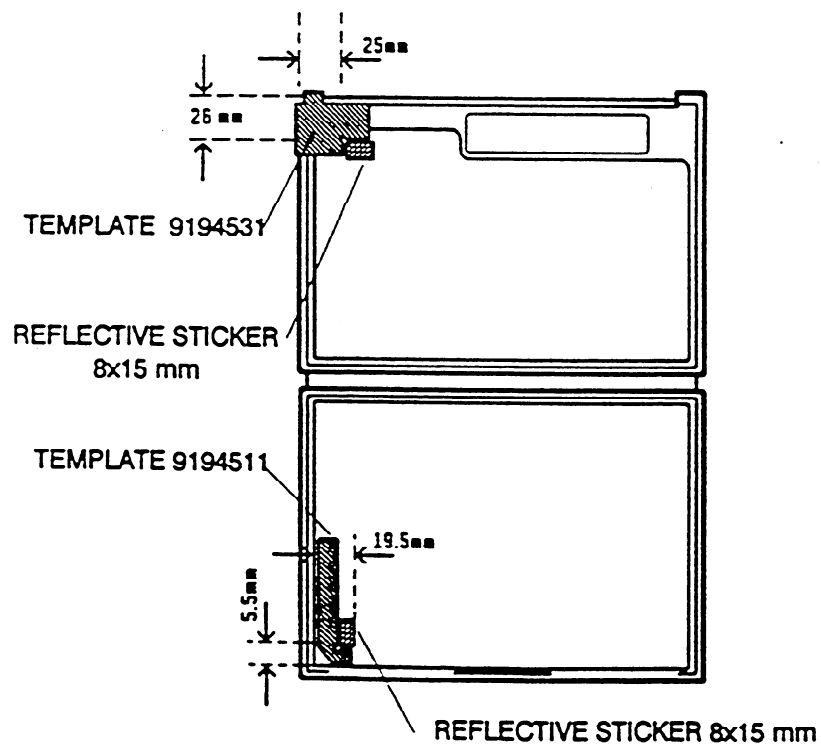


figure 82

MAMMO C3 CASSETTES

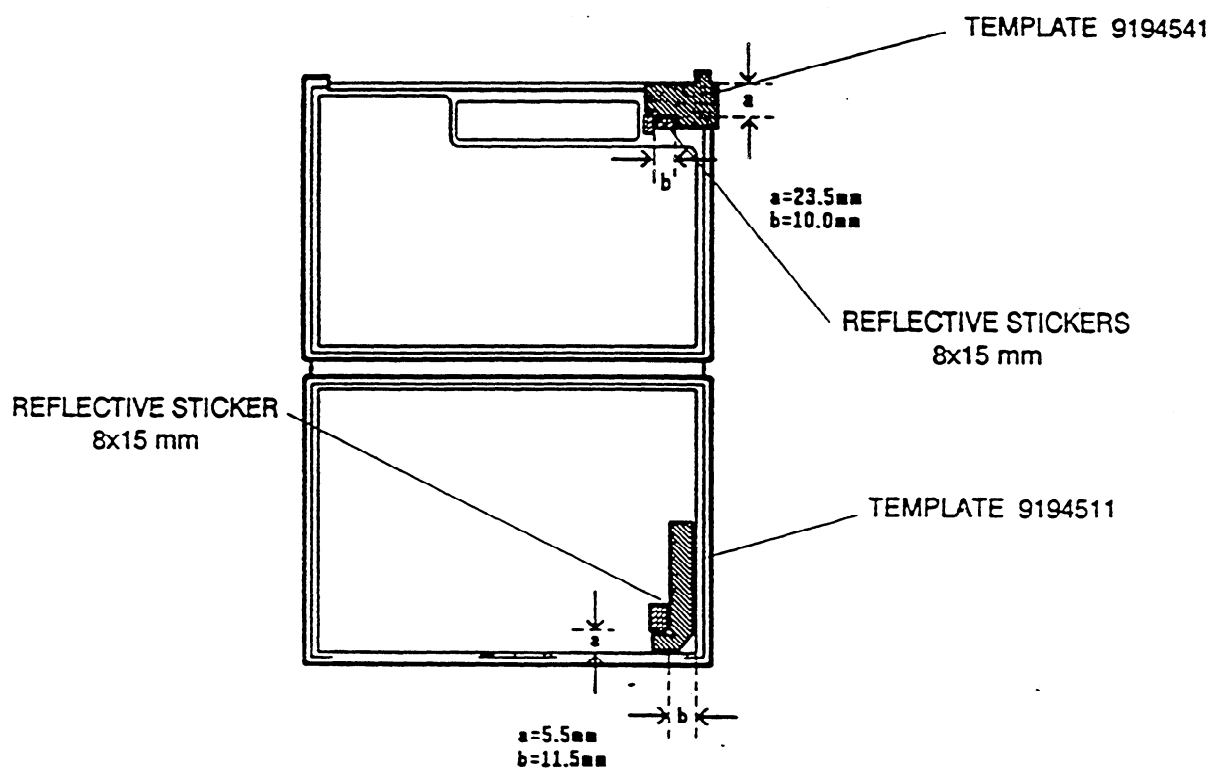


figure 83

11.2. PREPARING X-OMAT CASSETTES 20x40 cm

1. Install the OPENER GUIDE PN 9191911.

NOTE

Without the OPENER GUIDE, the ML700 will not open the X-OMAT CASSETTES 20x40cm.

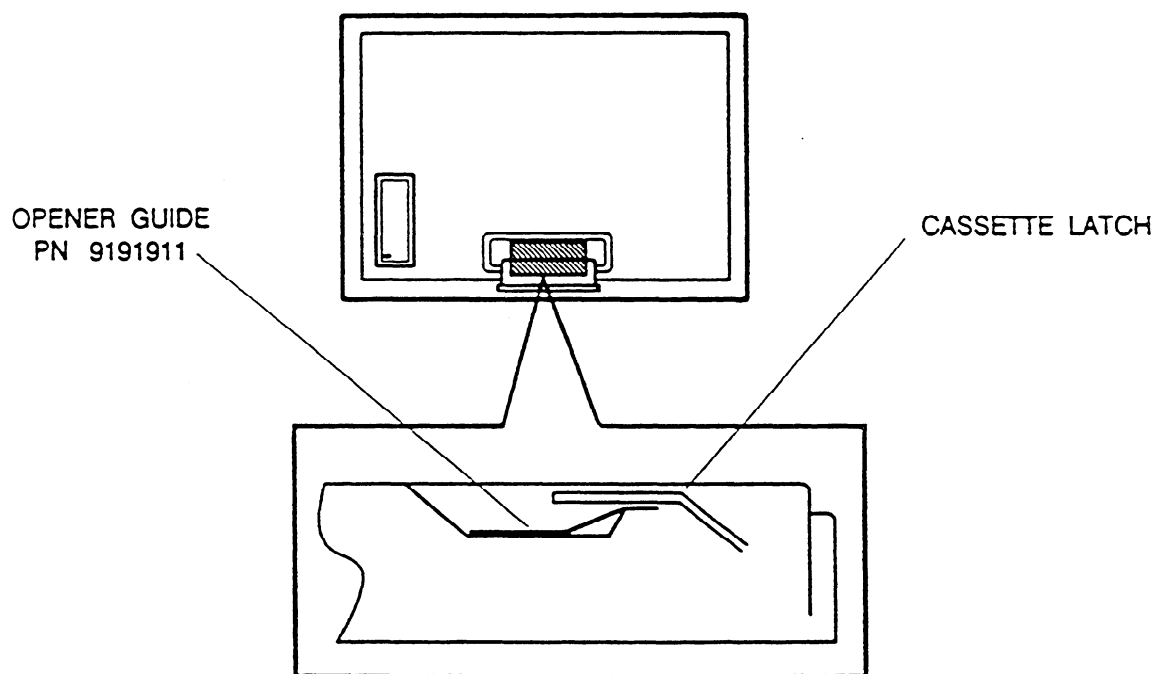


figure 84

11.3. LATCH ADJUSTMENT

NOTE

UNLOAD CASSETTE IN DARKROOM

1. Check the CASSETTE for damage.
2. Open the CASSETTE by hand.
3. Check that the LID FRONT and the BOTTOM FRONT of the CASSETTE do not touch, when you close

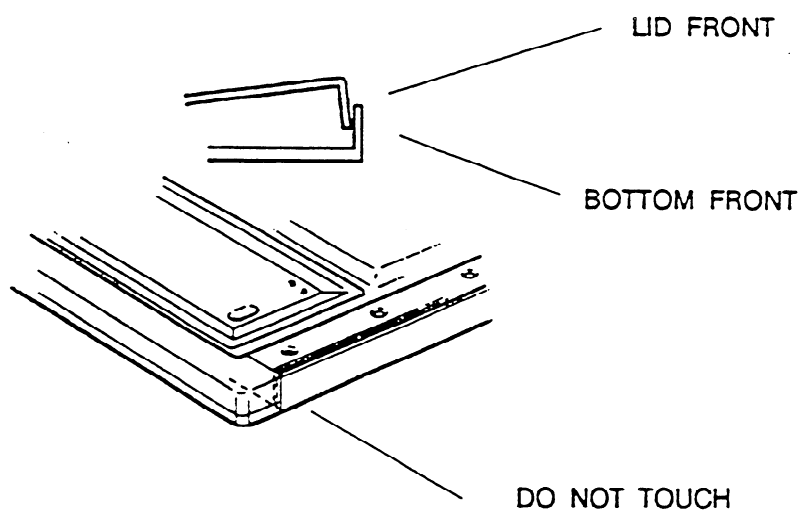


figure 85

the CASSETTE.

4. Use your hand to check the pressure to close the LID. No extra pressure should be used when the LID HOOK touches the BOTTOM HOOK (see fig. 85).

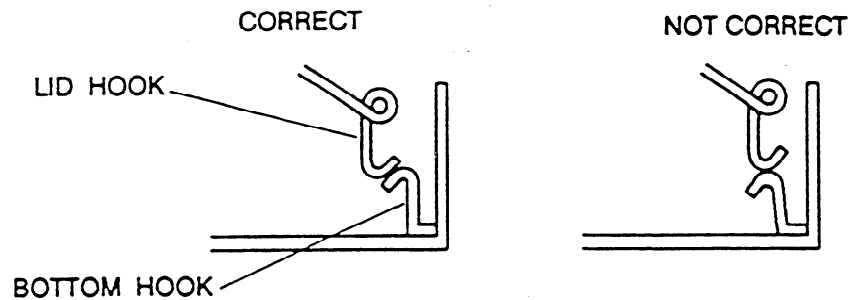


figure 86

5. Use TOOL 29030723 to check the LATCH. When you press the TOOL, the LATCH should open.

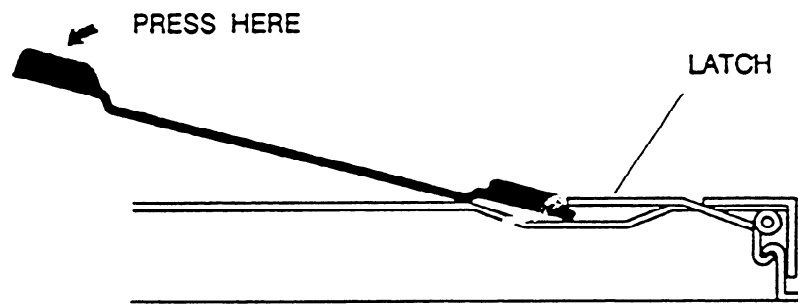


figure 87

6. Use TOOL 29030897 to check the BOTTOM HOOK. The adjustment of the BOTTOM HOOK is correct with no clearance between the TOOL and the BOTTOM HOOK.

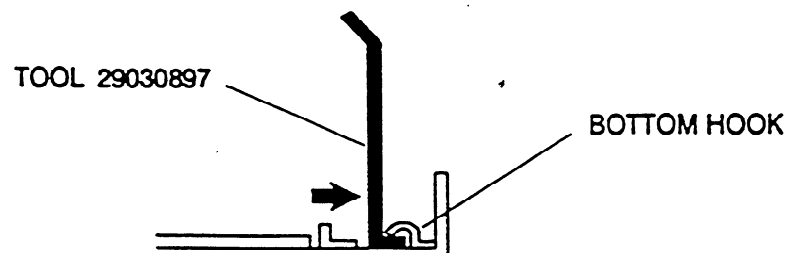


figure 88

7. To move the BOTTOM HOOK up, use TOOL 29030897:

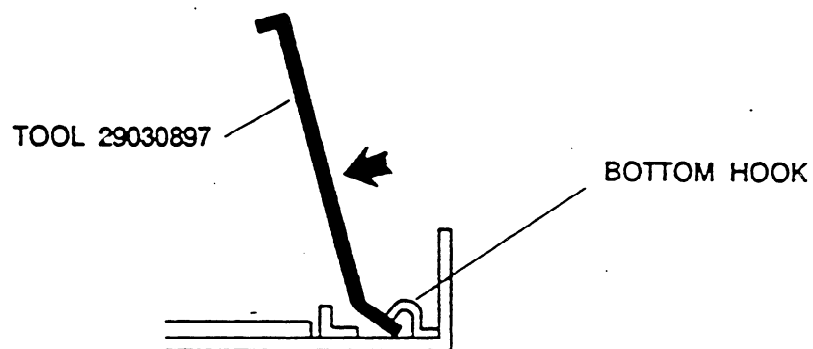


figure 89

8. To move the BOTTOM HOOK down use TOOL 29030897 and TOOL 29030905.

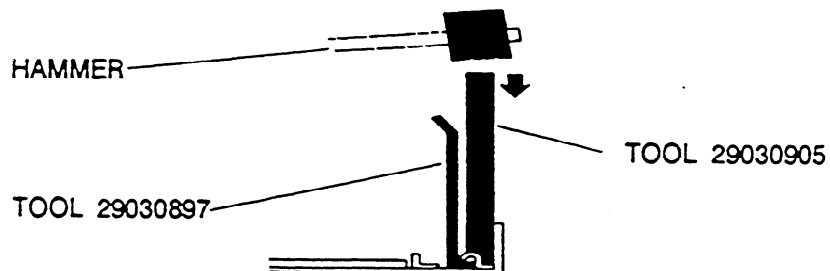


figure 90

9. Use TOOL 29030954 to check the position of the LID HOOK.

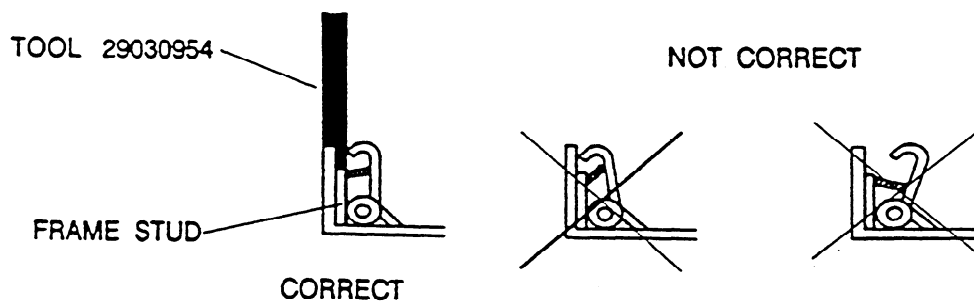


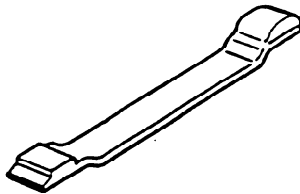
figure 91

The adjustment of the LID HOOK is correct with no clearance between the FRAME and the LID HOOK.

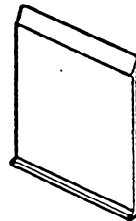
If necessary adjust the position of the FRAME STUD.

These are all CASSETTE TOOLS.

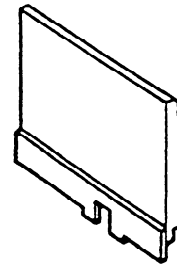
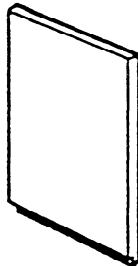
TOOL 29030723



TOOL 29030897



TOOL 29030905



TOOL 29030954

figure 92

12. RESIZING MAGAZINES.

The following size configurations are possible:

CASSETTE SIZE	FILM TYPE	CODE BRACKETS*				
18x24 cm	X-OMATIC FILM					
18x24 cm	MAMMOGRAPHY FILM					
18x43 cm	X-OMATIC FILM					
20x40 cm	X-OMATIC FILM					
24x24 cm	X-OMATIC FILM					
24x30 cm	X-OMATIC FILM					
24x30 cm	MAMMOGRAPHY FILM					
30x35 cm	X-OMATIC FILM					
30x40 cm	X-OMATIC FILM					
35x35 cm	X-OMATIC FILM					
35x43 cm	X-OMATIC FILM					
8x10 inch	X-OMATIC FILM					
8x10 inch	CRT FILM					
		1	2	3	4	5
TYPE 1 for all sizes						
TYPE 2 for all sizes						

* CODE BRACKET CONTACT — — HOLE

FOR ORIENTATION OF MAGAZINE SEE FIGURE 94

figure 93

To change MAGAZINE CODES and SIZES, do the following.

1. Place MAGAZINE on flat surface with BOTTOM up.

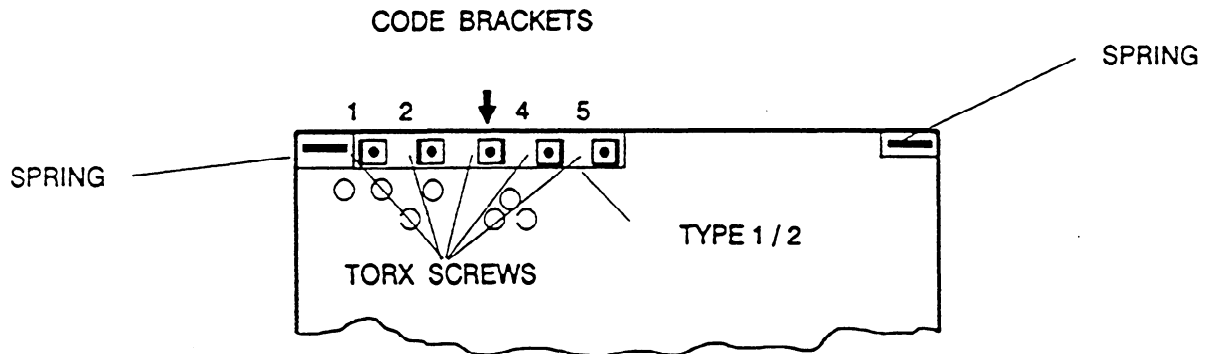


figure 94

2. Use TORX-SCREW DRIVER PN 9901729 to remove TORX SCRWES.
3. Use CODE TABLE fig. 93 for correct size.
4. From the MAGAZINE remove the TOP COVER together with the LID.
5. Place STOP LH, STOP RH, STOP REAR in the RECESSES corresponding to the selected FILM SIZE. The RECESSES are marked with the FILM SIZE.

CAUTION

Make sure that STOP L and STOP R are mounted correctly with the CAM towards the HANDLE. Otherwise it is i possible to close the MAGAZINE. See figure 95.

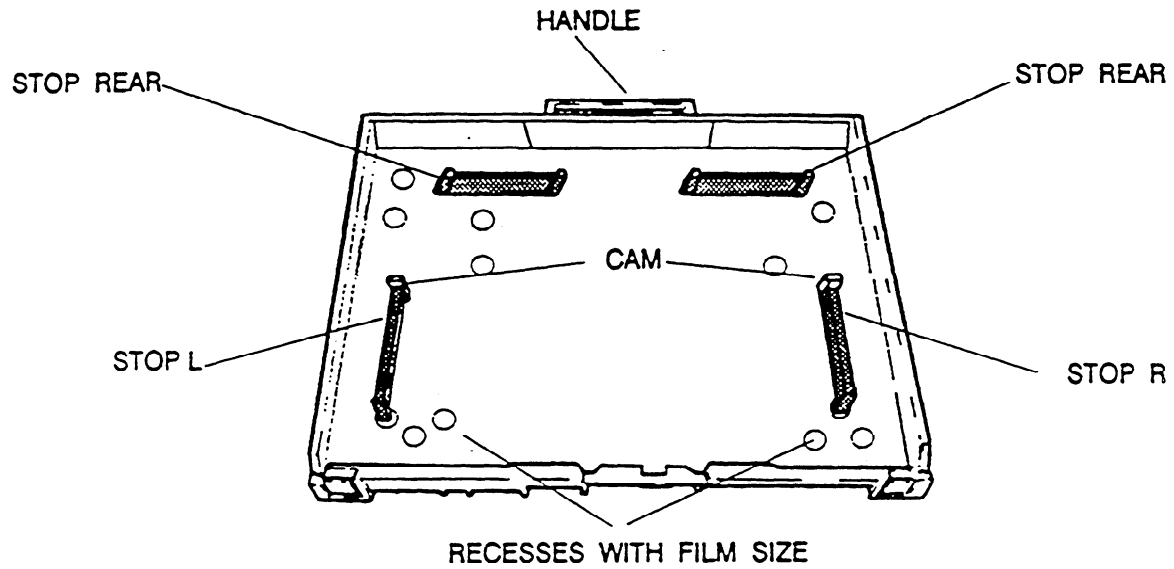


figure 95

7. Mount TOP COVER.

8. Apply correct FILM SIZE LABEL to HANDLE SIDE of MAGAZINE.

13. INSTALLATION CHECKLIST

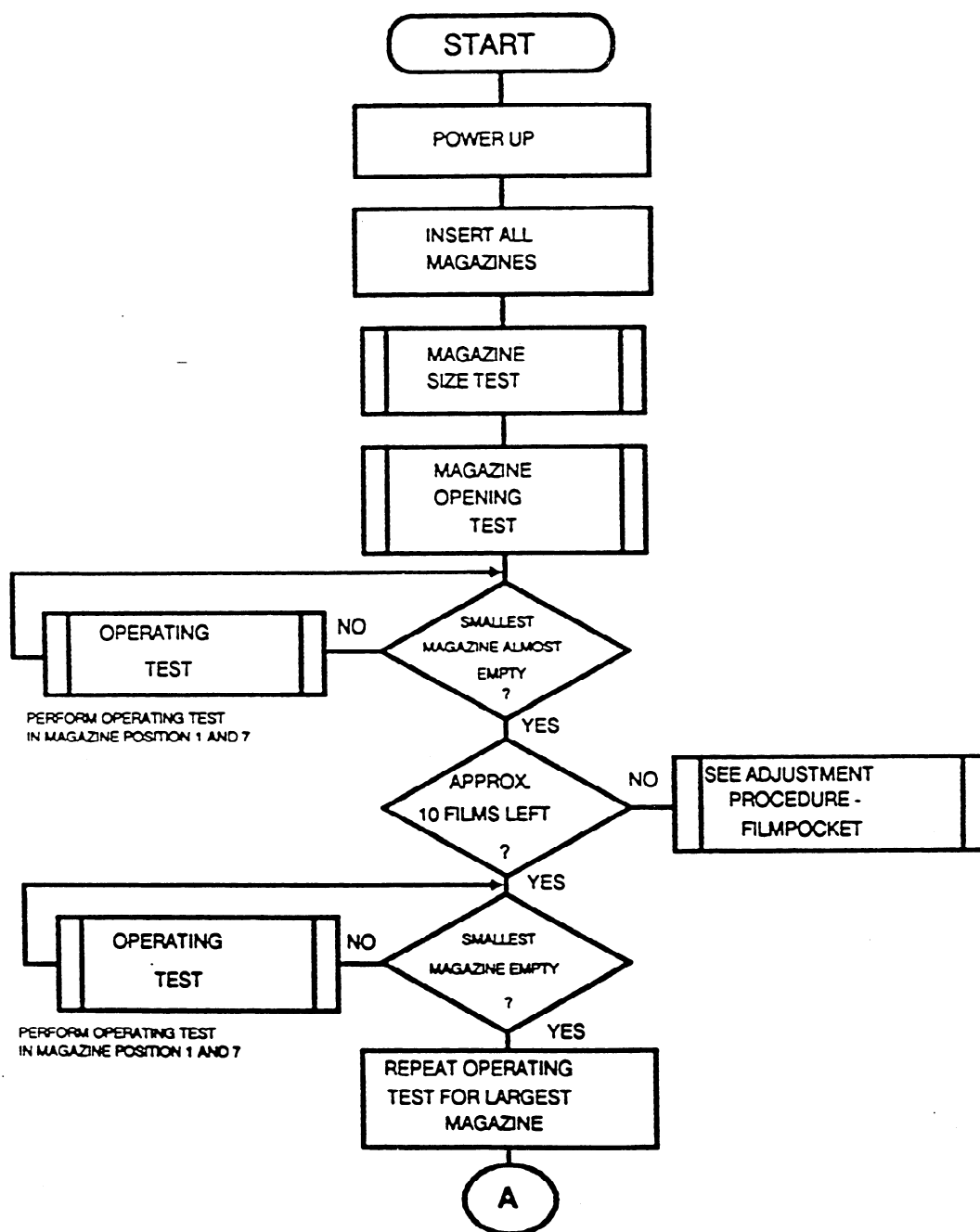


figure 96

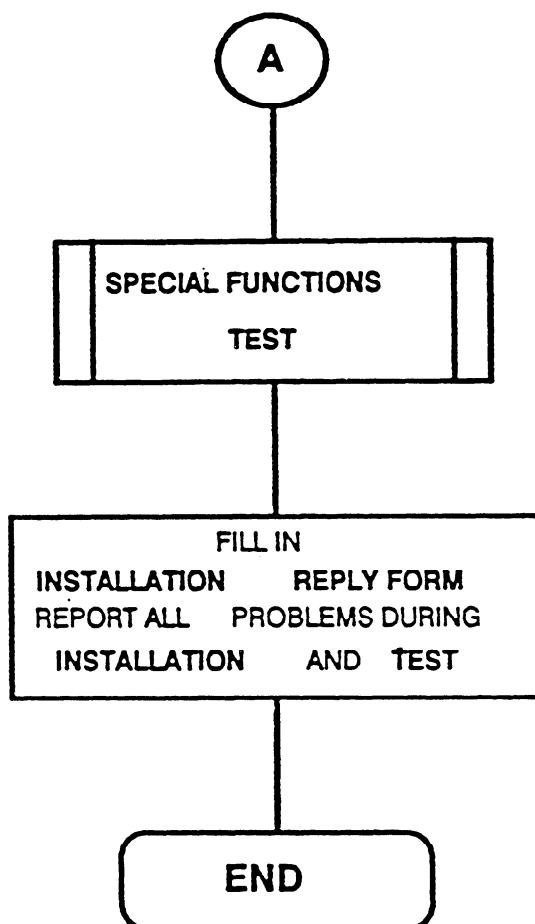


figure 97

MAGAZINE SIZE TEST

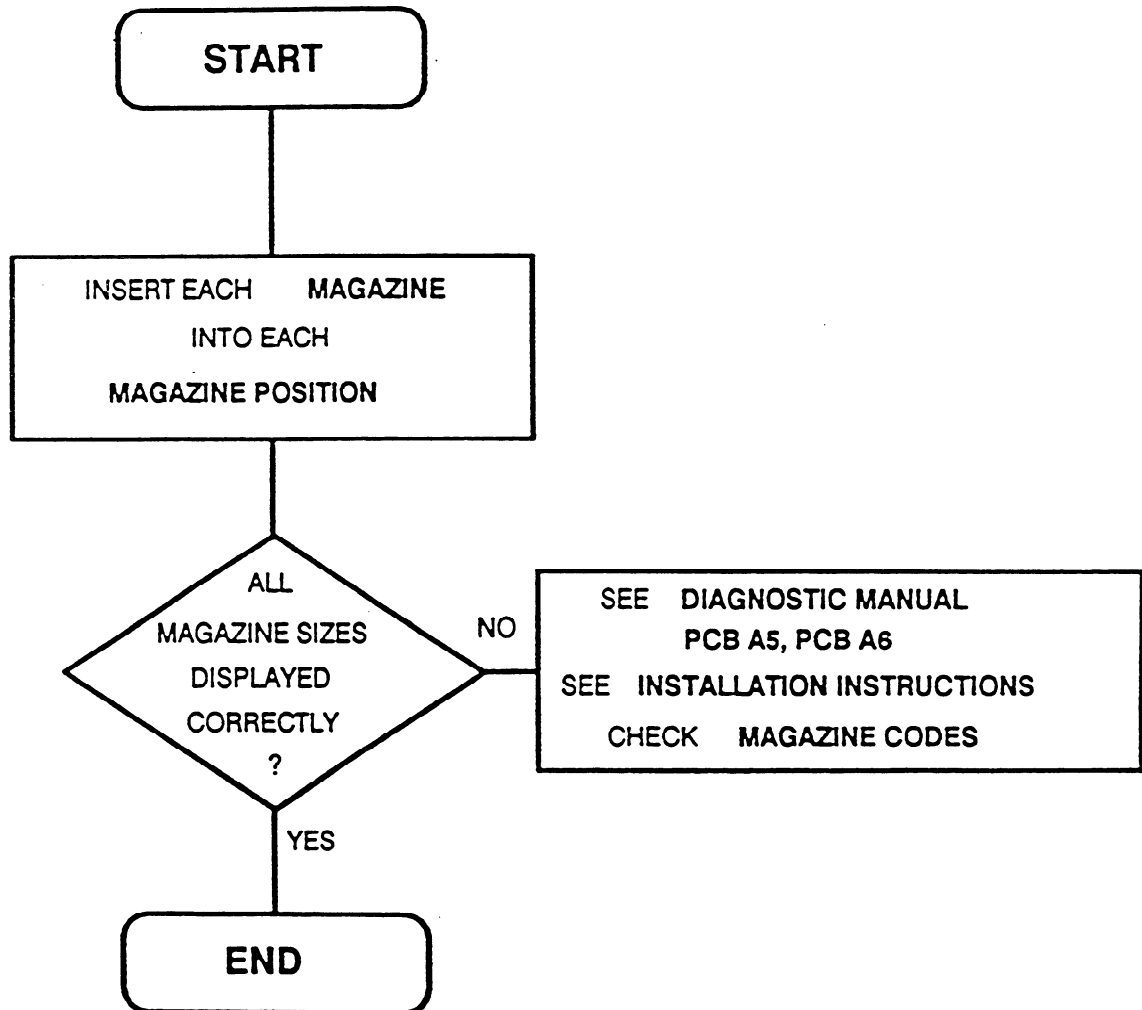


figure 98

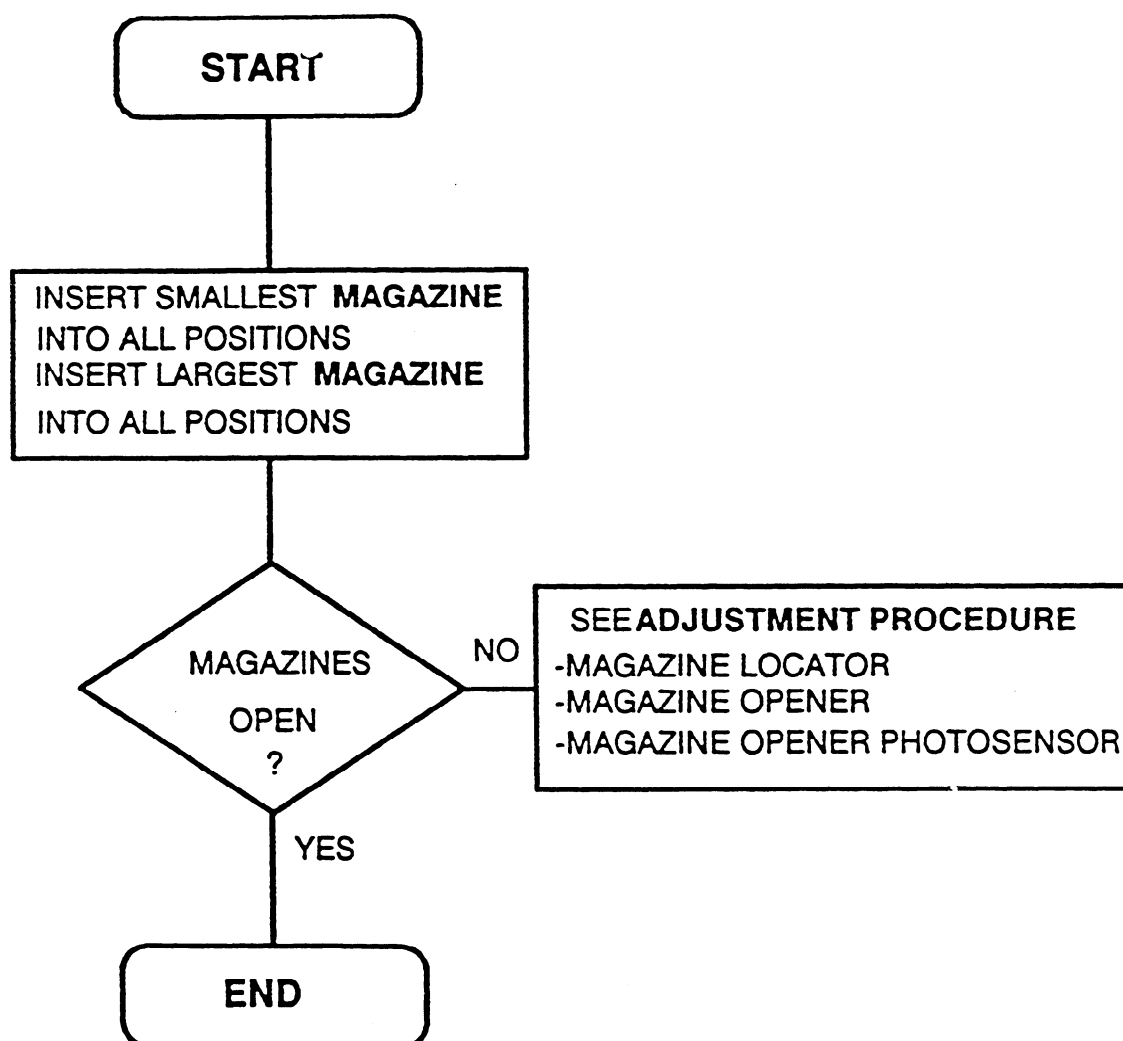
MAGAZINE OPENING TEST

figure 99

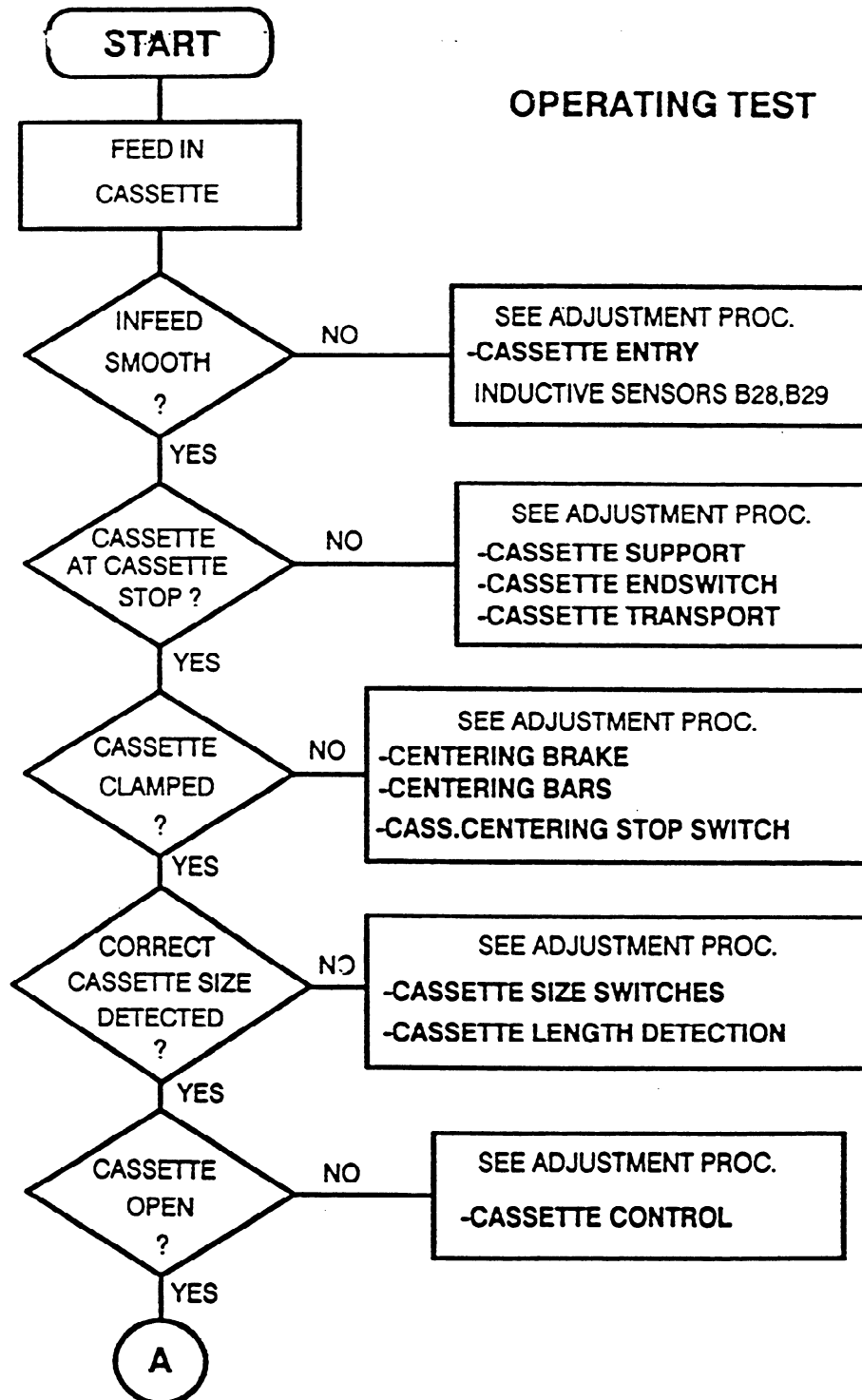
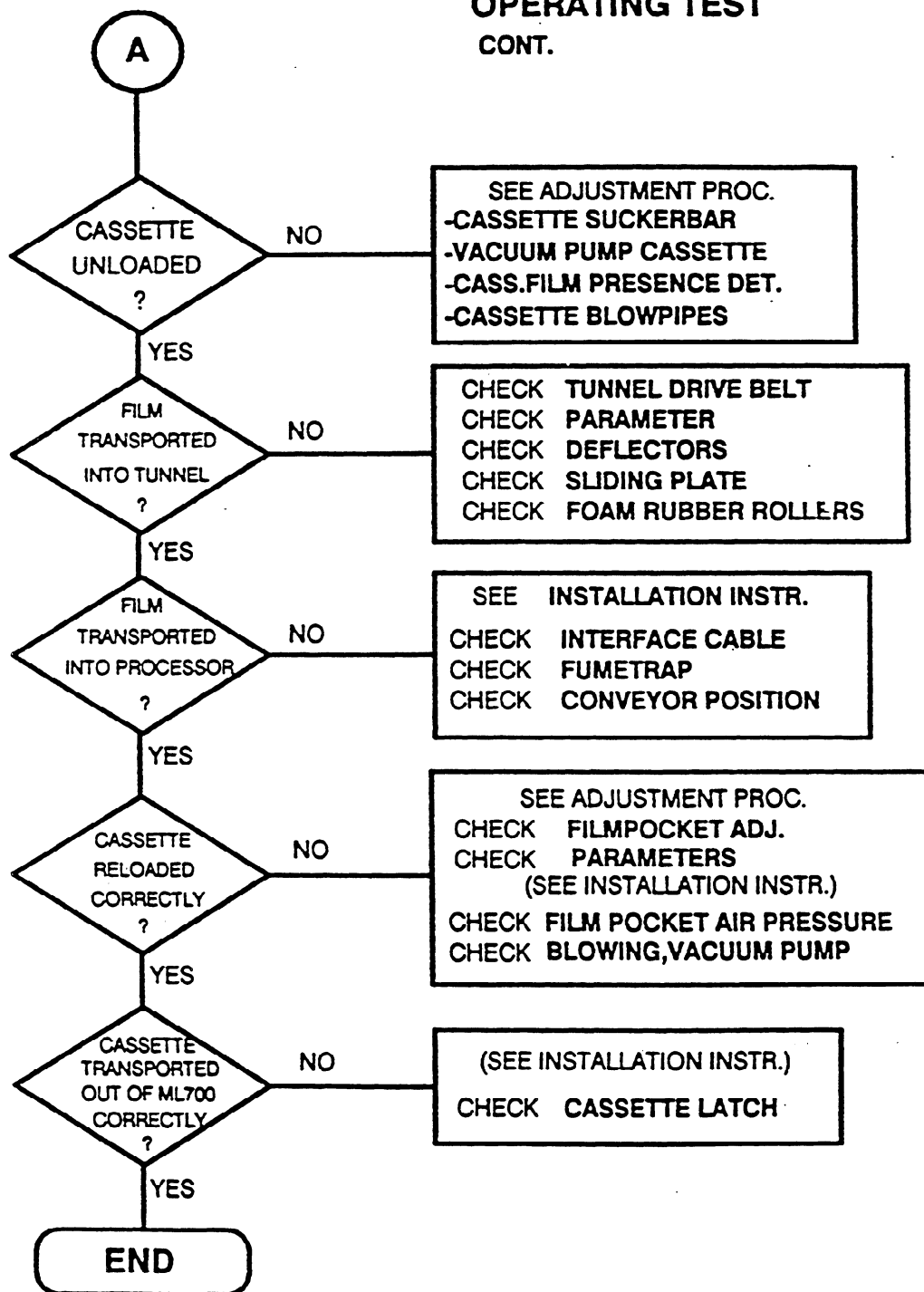


figure 100

OPERATING TEST CONT.



figur 101

SPECIAL FUNCTIONS TEST

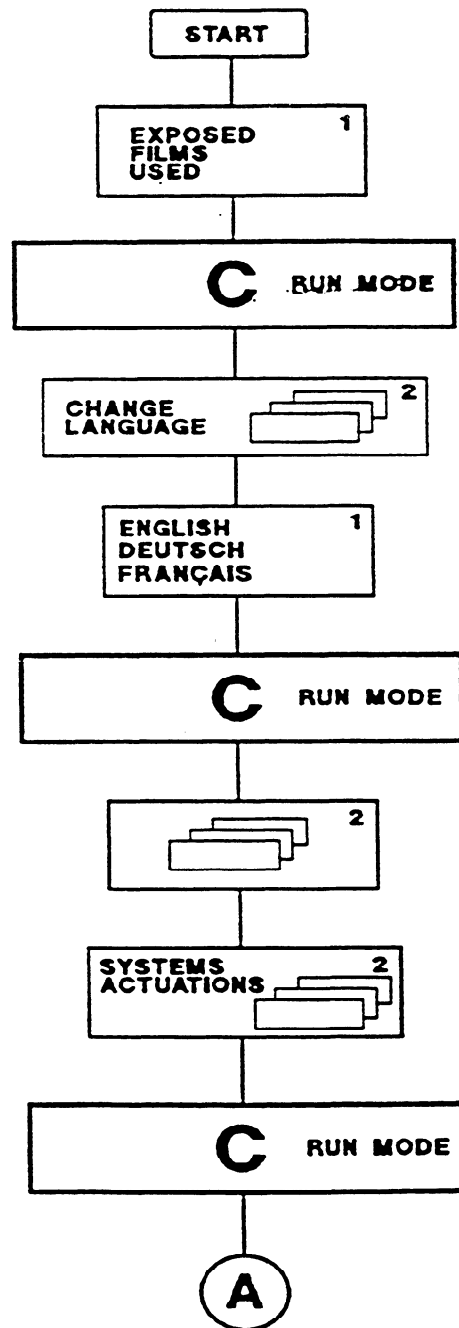


figure 102

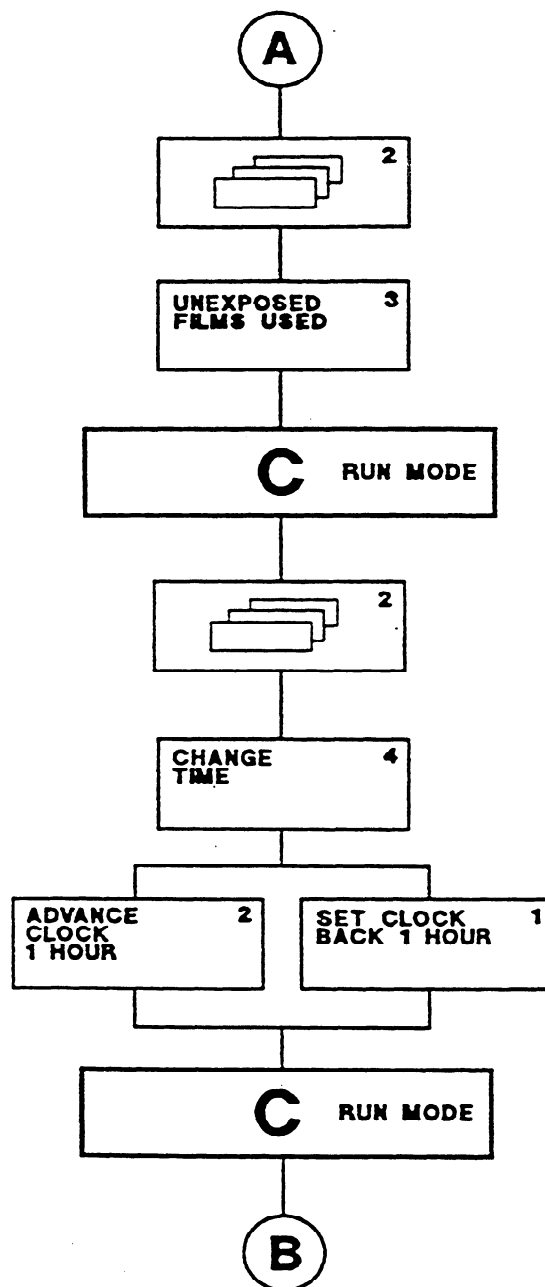


figure 103

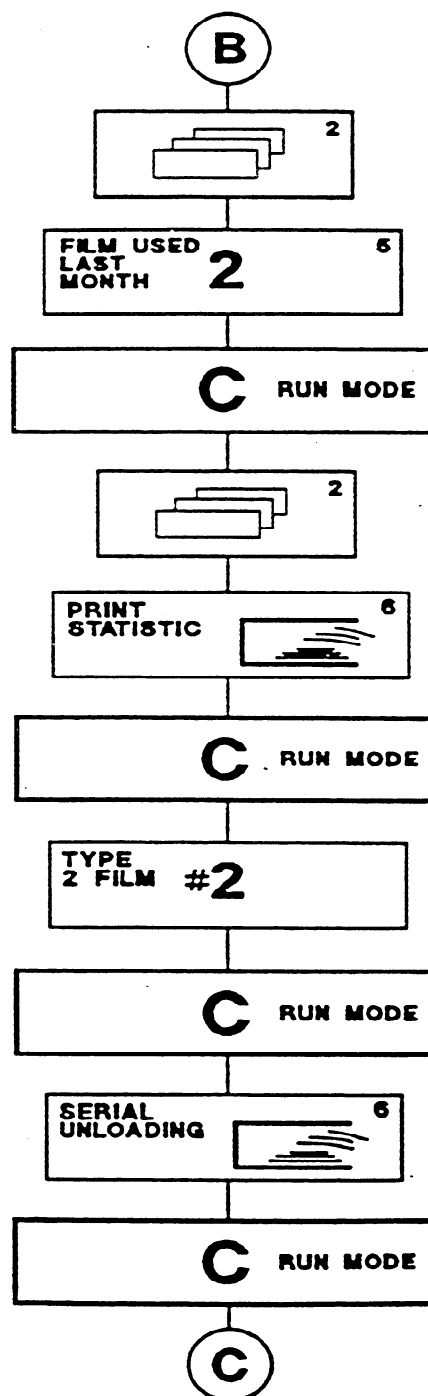


figure 104

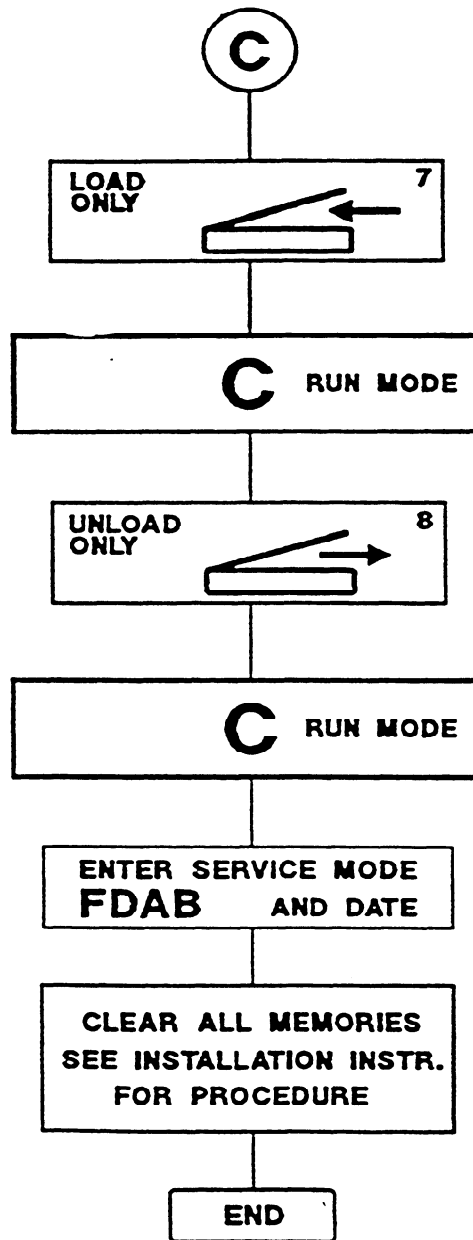


figure 105

APPENDIX A

CORRECT VENTING PROCEDURE FOR FILM PROCESSORS

If installing a ML 700 to a PROCESSOR, it is important that the PROCESSOR has correct venting. If the venting is not correct, fumes will cause corrosion in the ML 700. Do not install the ML 700 if the PROCESSOR is not correctly vented.

IMPORTANT

The air flow is correct when the fumes are flowing out of the PROCESSOR through the EXHAUST HOSE. Before installation do the following procedure to check that the air flow is correct.

Do the following procedure, using AIR METER TL-2431, to check that venting is correct:

1. Deenergize the PROCESSOR.
2. Place the RUBBER HOSE on the CENTER CONNECTOR of the AIR METER.
3. Disconnect the EXHAUST HOSE from the PROCESSOR EXHAUST DUCT.
4. Remove the curved end of the REPLENISHMENT CHECK TUBE PN 592380, by cutting the curved end.
5. Install the TAPERED END of the REPLENISHMENT CHECK TUBE onto the RUBBER HOSE.
6. Move the REPLENISHMENT CHECK TUBE into the EXHAUST HOSE until the end of the CHECK TUBE is 30.5 (12 in.) from the end of the EXHAUST HOSE.
7. Place the AIR METER vertically and record the average of several readings.
8. Compare the average reading with the table.

3 in. diameter DUCT		4 in. diameter DUCT	
Minimum	Maximum	Minimum	Maximum
0.03 inch	0.04 inch	0.01 inch	0.02 inch

9. If there is a DAMPER or FAN in the BUILDING VENTILATION SYSTEM, adjust the DAMPER or FAN until the the AIR METER has correct reading.
10. If the air flow reading is still not correct, contact the SALES REPRESENTATIVE to correct the venting.
11. When the air flow reading is the same as the measurements in the table, conect all HOSES.

IMPORTANT

Inform the CUSTOMER that all COVERS and PANELS must be installed while the PROCESSOR is energized.

12. If necessary, install the COVERS and PANELS.

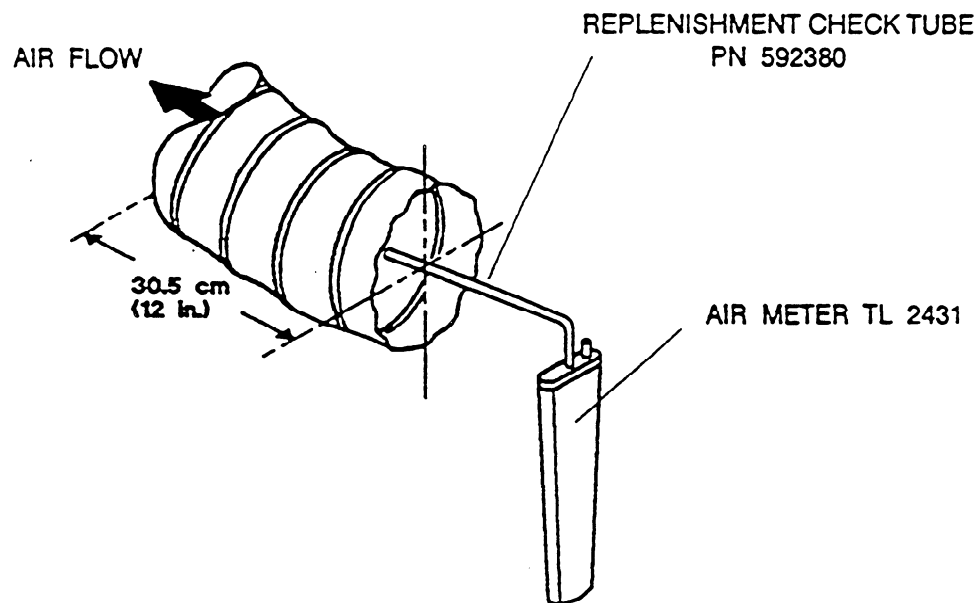


figure 106

APPENDIX B

INSTALLATION OF FILM PRESENCE DETECTOR TOP FOR C3 CASSETTES.

1. If not done already move SWITCH 1 on PCB A1 to the left.
2. Unplug FILM PRESENCE DETECTOR TOP (FPDT) on PCB A9 CONNECTOR A9X5.

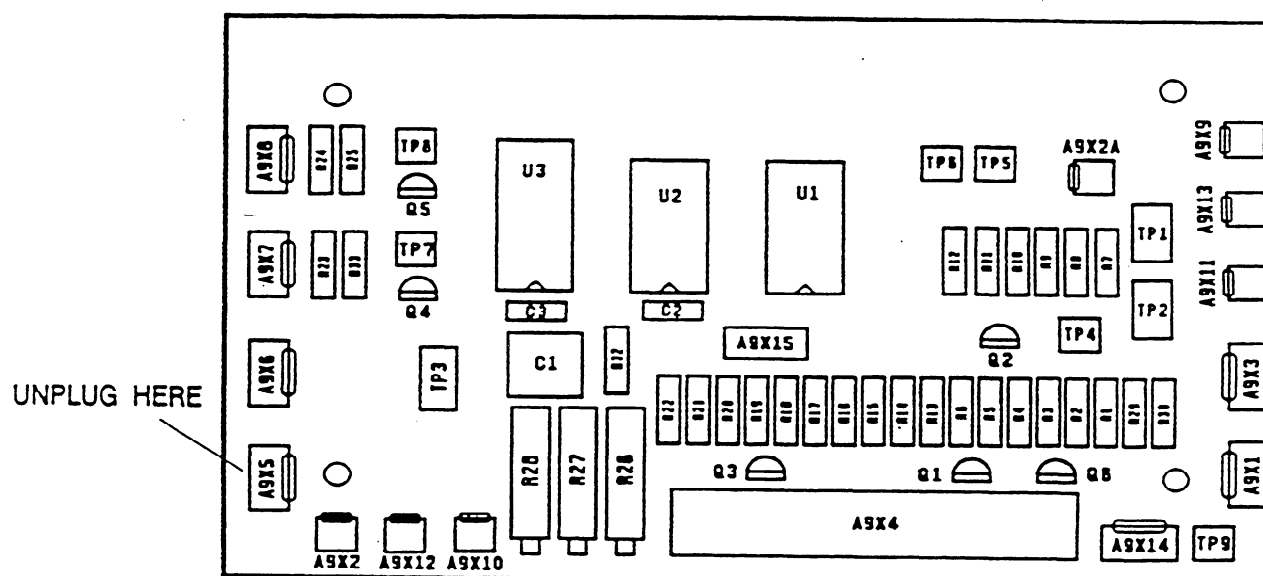


figure 107

3. Take out SENSOR FPDT

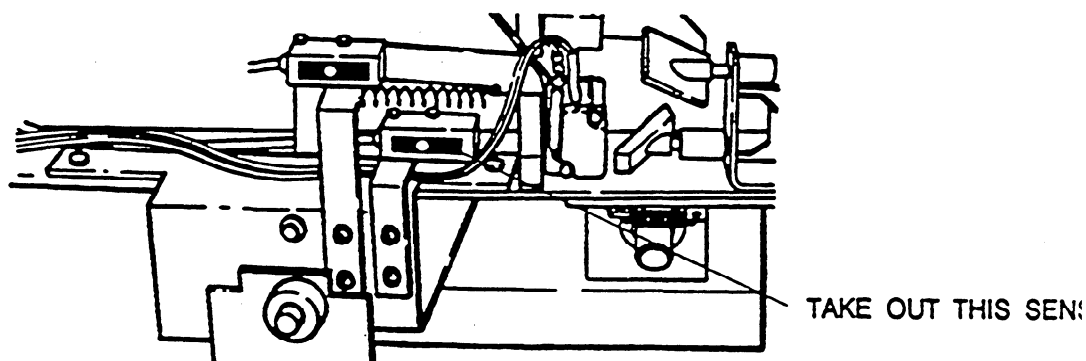


figure 108

4. Mount the SENSOR FPDT on the lefthand CENTERING BAR at the same location.
5. Make sure that it is parallel to its mount.
6. Connect the SENSOR FPDT to CONNECTOR A8X12 on PCB A8.

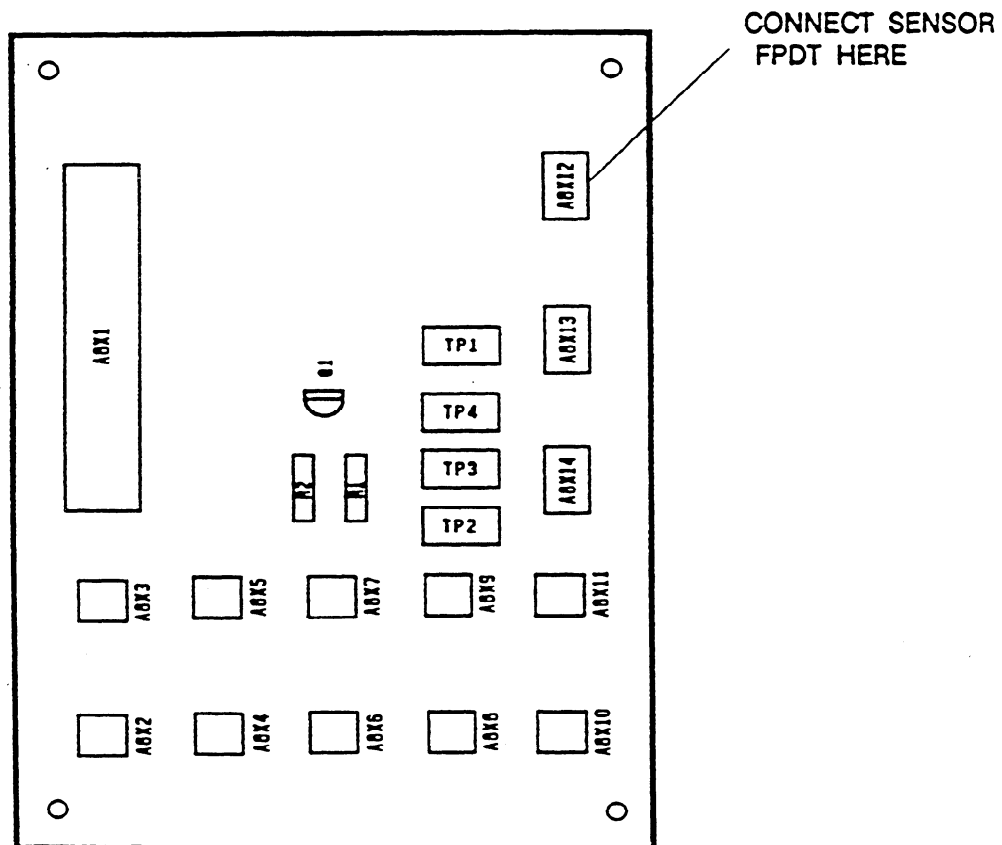


figure 109

7. Fix the CABLE with WIRE TIES to the HARNESS.
8. Go on with SECTION 4 INSTALLING the HUMIDIFIER to ML 700.

APPENDIX C

ADJUSTMENT OF THE FILM PRESENCE DETECTOR TOP FOR C3 CASSETTES.

1. Check that the MIRROR on the lefthand CENTERING BAR has the same distance to its mount, as the MIRROR on the righthand CENTERING BAR.
2. Take a C3 CASSETTE with REFLECTIVE STICKERS.
3. Enter SERVICE MODE.
4. Select OPTION 7.1 and feed CASSETTE in.
5. Select OPTION 7.2 and center the CASSETTE.
6. Select option 7.3 and open the CASSETTE.
7. Loosen SETSCREW of the MIRROR.
8. Hold a DENTIST MIRROR in front of the FILM PRESENCE DETECTOR TOP FPDT.
9. Move the DENTIST MIRROR until you see the REFLECTIVE STICKER on the LID SCREEN of the CASSETTE.
10. Adjust the MIRROR until you see the REFLECTIVE STICKER in the CENTER of the MIRROR.
11. Loosen the SENSOR and BRACKET SCREWS.

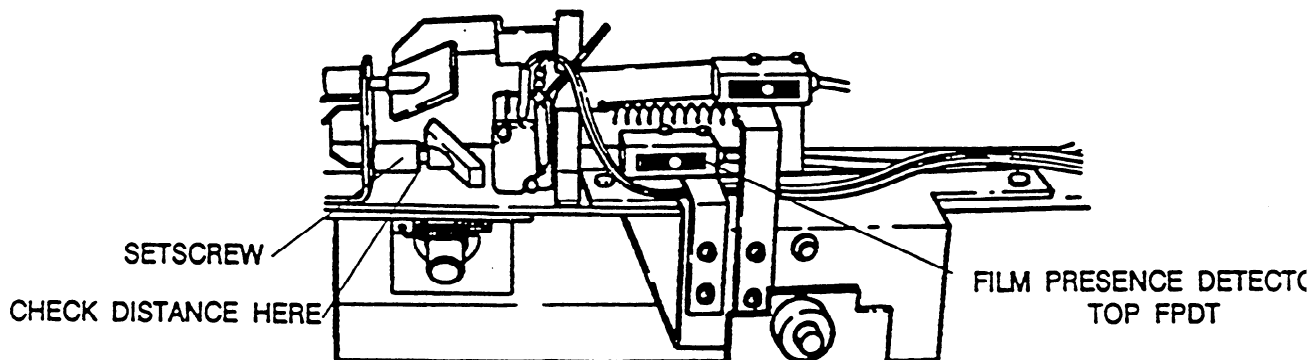


figure 110

12. Set GAIN of the SENSOR to maximum.
13. Change the position of the FILM PRESENCE DETECTOR TOP and observe the INDICATOR LED until it lights green.
14. Reduce the GAIN (turn the GAIN POT. counterclockwise) of the SENSOR until the INDICATOR LED goes red and than increase the GAIN again by 1 step clockwise.

NOTE

This makes the SENSOR most sensitive to position changes.

15. Move SENSOR from left to right. Locate left and right position where the SENSOR LED lights red. Set SENSOR midway between.

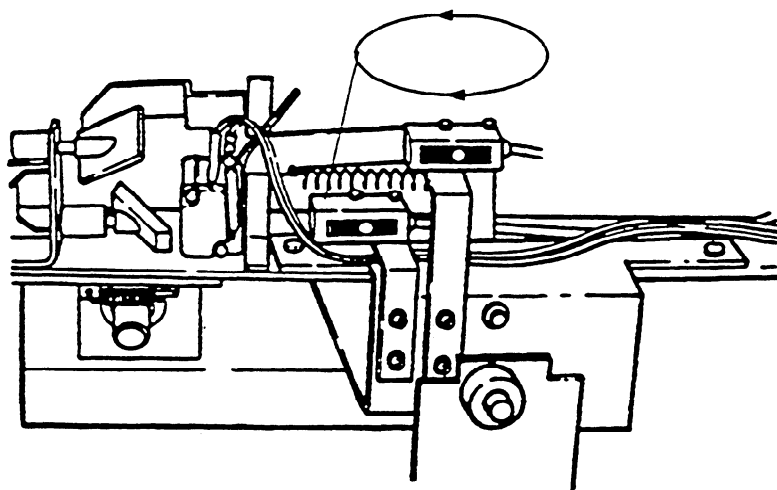


figure 111

16. Fasten SENSOR SCREWS.

17. Move SENSOR forward and backward to find both positions where the SENSOR LED lights red. Set SENSOR midway between.

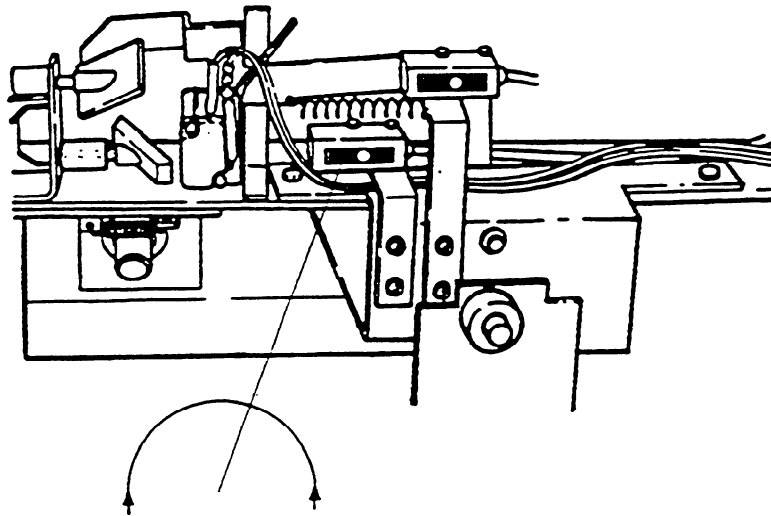


figure 112

18. Fasten BRACKET SCREWS.

19. Rotate GAIN CONTROL counterclockwise until LED lights red.

20. Rotate GAIN CONTROL 2 steps clockwise.

21. Close CASSETTE and remove it from the ML 700.

22. Check the adjustment with a different CASSETTES.

23. Go on with SECTION 11.



CUSTOMER EQUIPMENT SERVICES KODAK AG STUTTGART GERMANY